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SERVICE MANUAL

SV-627X/425X/223X/627F/425F/627B/225B/625G/425G/620I/C80K/C30K/120W/SVR-629

SAMSUNG

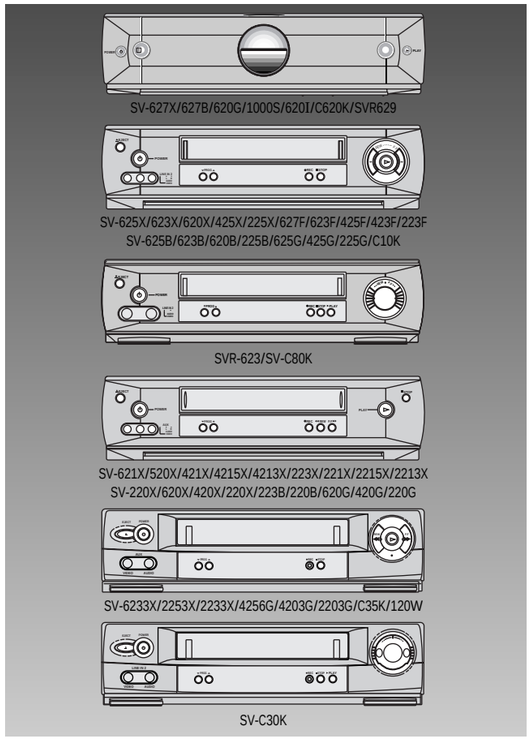
VIDEO CASSETTE RECORDER

SV-627X/625X/623X/6233X/621X/620X/520X
SV-425X/4215X/4213X/421X/225X/2253X
SV-223X/2233X/221X/2215X/2213X/220X
SV-627F/623F/620F/425F/423F/420F/223F/220F
SV-627B/625B/623B/620B/225B/223B/220B
SV-625G/620G/1000S
SV-425G/4253G/4203G/420G/225G/220G/2203G
SVR-629/623
SV-620I/C620K/C80K/C35K/C30K/C10K/120W

SERVICE Manual

For mechanical disassembly and adjustment, refer to the “Mechanical Manual” (DX-9R → AC68-00001A).

VIDEO CASSETTE RECORDER



SV-627X/627B/620G/1000S/620I/C620K/SVR629

SV-625X/623X/620X/425X/225X/627F/623F/425F/423F/223F
SV-625B/623B/620B/225B/625G/425G/225G/C10K

SVR-623/SV-C80K

SV-621X/520X/421X/4215X/4213X/223X/221X/2215X/2213X
SV-220X/620X/420X/220X/223B/220B/620G/420G/220G

SV-6233X/2253X/2233X/4256G/4203G/2203G/C35K/120W

SV-C30K

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2. Alignment and Adjustment

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4. Electrical Parts List

5. Schematic Diagrams

IMPORTANT SERVICE GUIDE

◆ MODE SWITCH (PROGRAM SWITCH) ASSEMBLY POINT

1) When installing the ass'y full deck on the Main PCB, be sure to align the assembly point of mode switch.

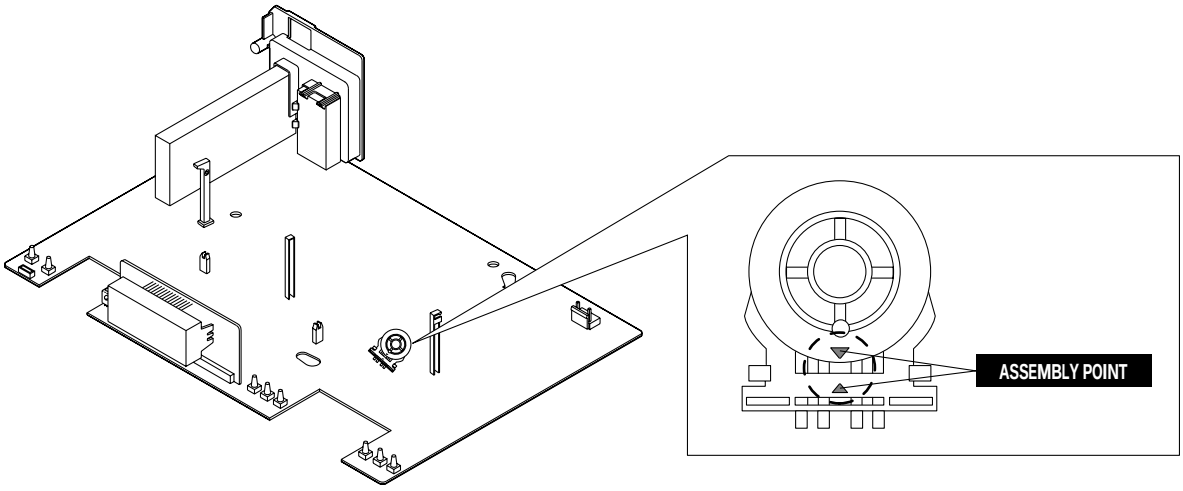


Fig. 1

◆ HOW TO EJECT THE CASSETTE TAPE
(If the unit does not operate on condition that tape is inserted into housing ass'y)

1) Remove the Holder Worm ❶ and the gear worm ❷. (See Fig. 2)
2) Turn the Gear Worm Wheel ❸ counterclockwise in the direction of arrow with screw driver. (See Fig. 2)
3) When Slider S, T are approached in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwounded tape. (Refer to Fig. 3)
   (If you rotate Gear Worm Wheel continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwounded tape in the state of set horizontally.)
4) Rotate Gear Worm Wheel ❸ counterclockwise using screw driver again up to the state of eject mode and then pick out the tape. (Refer to Fig. 2)

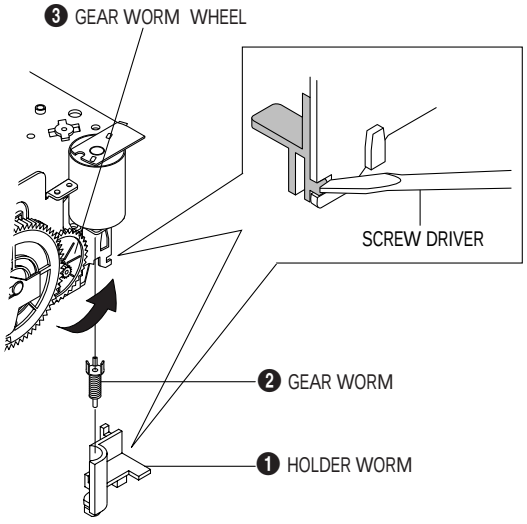


Fig. 2

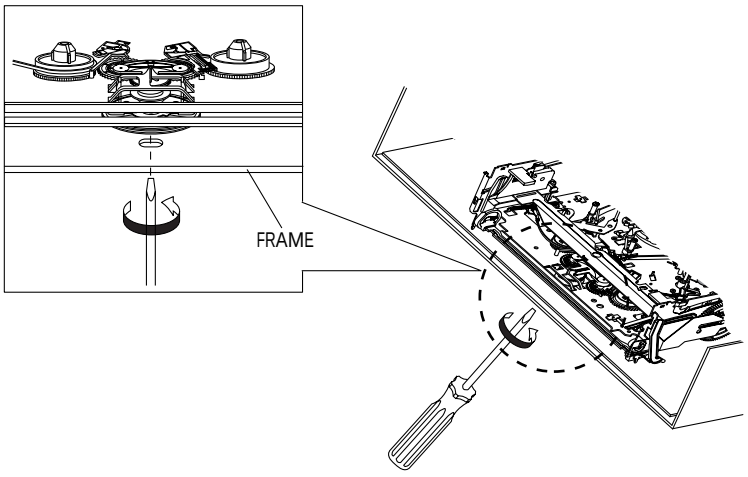


Fig. 3

1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1-1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

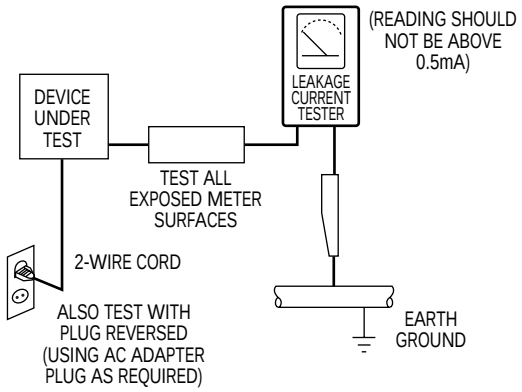

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METER SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the X-ray protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors.
    Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

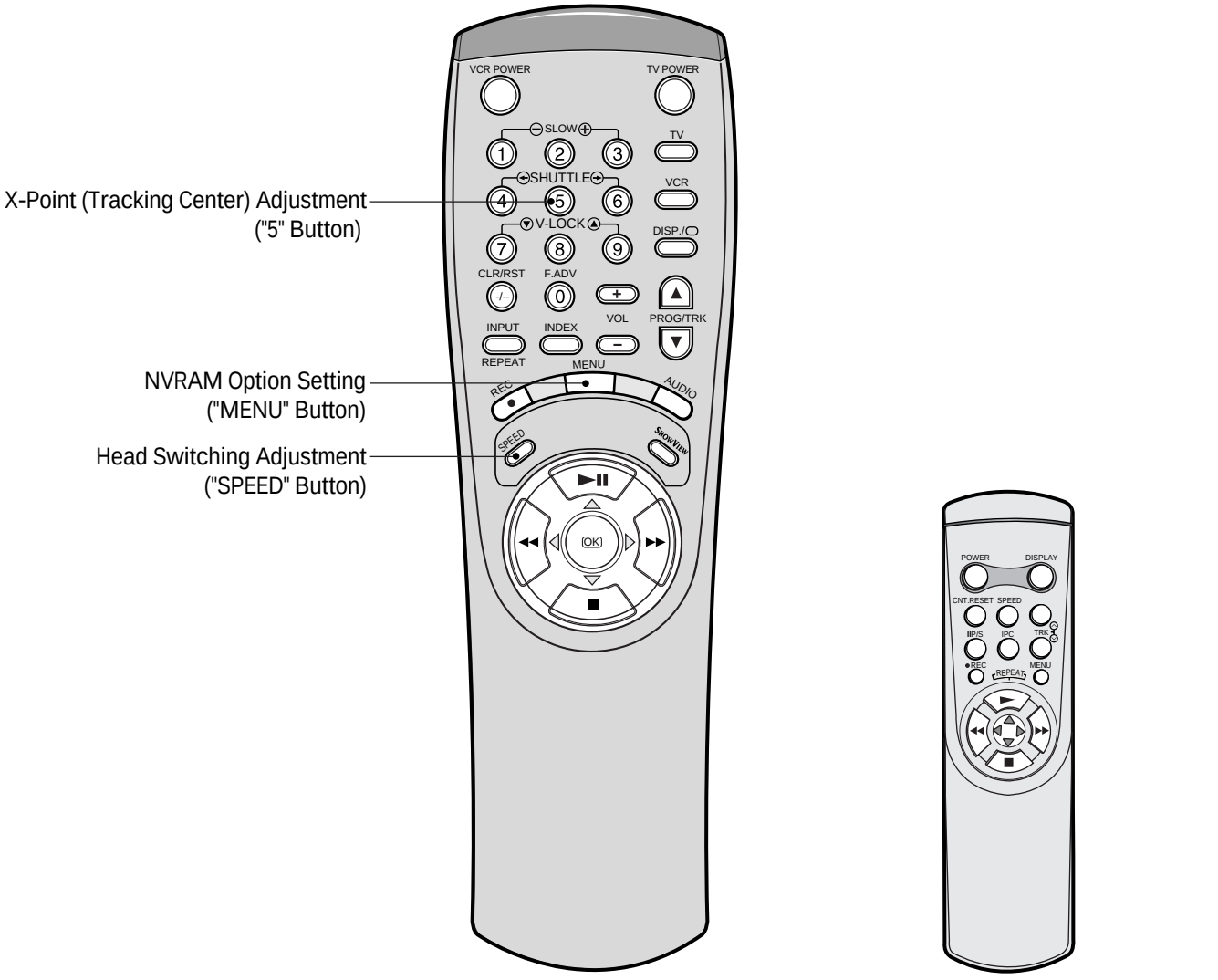
    Components that are critical for safety are indicated in the circuit diagram by shading, (⚠ or ⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

2. Alignment and Adjustment

2-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) Among Samsung VCR remote control used for adjustment as a accessory, only the remote control that has figures buttons (0 ~ 9) is available for all adjustment regardless of chassis.
5) How to adjustment.
   - Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
   - If the adjustment is completed, be sure to turn the power off.

2-1-1 Location of adjustment button of remote control



<This type of remote control can adjust.>

<This type of remote control can not adjust.>

Remote Control for adjustment is not supplied as a Service Jig.

Fig. 2-1

2-1-2 SW718 (TEST) location for adjustment mode setting

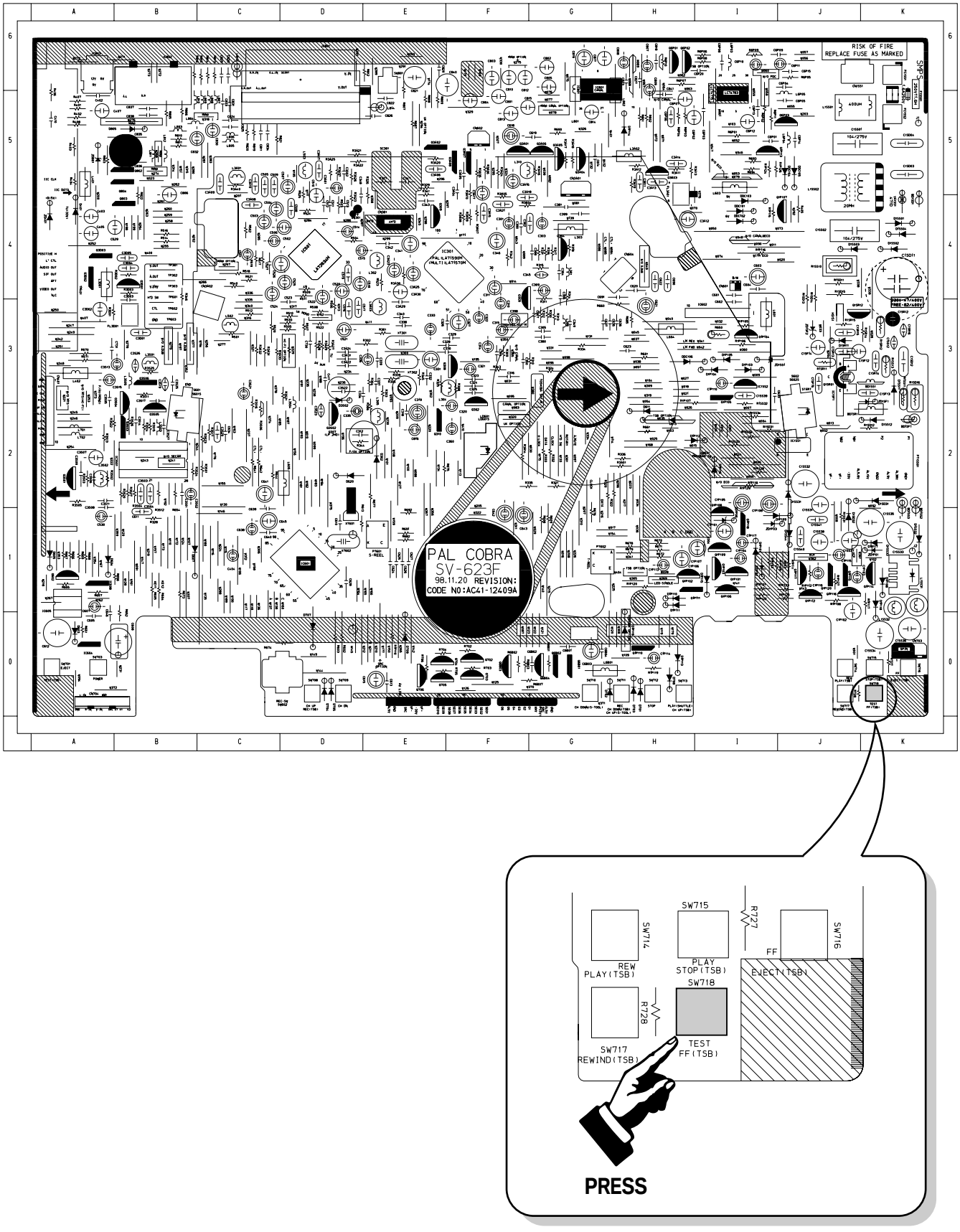


Fig. 2-2 Main PCB (Top View)

2-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual "DX-9R (AC68-00001A)" for the adjustment and confirmation of ass'y full deck.

2-2-1 The number and position of test point

Test point :	TP601 (H'D S/W -Trigger)	TP301 (Video output)
	TP602 (Control Pulse)	TP302 (Audio output)
		TP303 (Envelope)

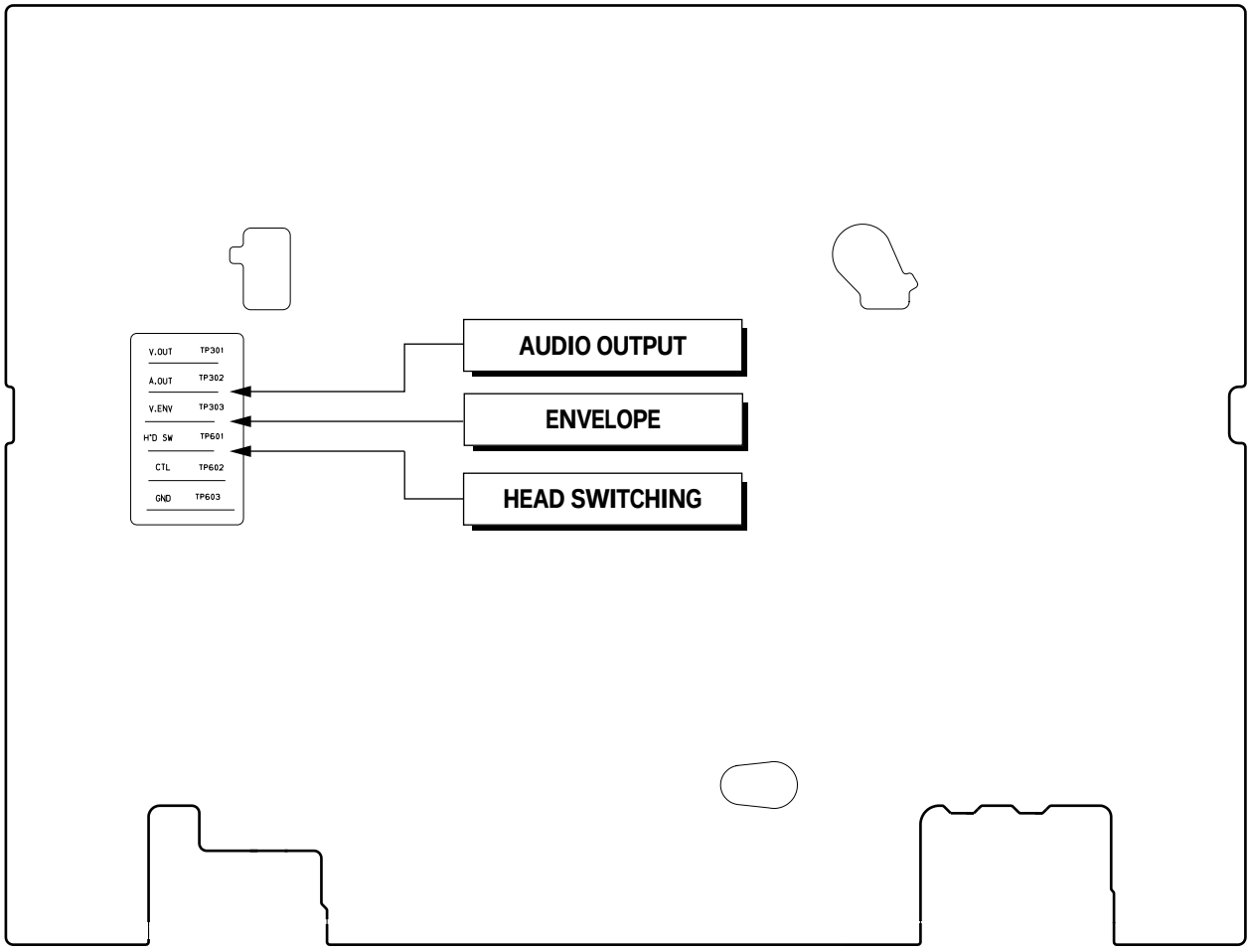


Fig. 2-3 Location of Test point (Main PCB-Top View)

2-2-1 ACE Head Position (X-Point) Adjustment

(See the 2-2-1(d) ACE Head Position (X-Point) Adjustment on page 2-2 of the Mechanical Manual)

1) Playback the alignment tape (Color bar).
2) Press the "SW718 (TEST)" button on Main PCB to set the adjustment mode. (See Fig. 2-2)
3) Press the "5" button of remote control then adjustment is operated automatically. (See Fig. 2-1)
4) Connect the CH-1 probe to TP303 (Envelope) the CH-2 probe to TP601 (H'D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

2-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
3) Press the “SPEED” button of remote control then adjustment is operated automatically. (See Fig. 2-1)
4) Turn the Power off.

2-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the repaired model. (If the option is not set, the unit is not operated.)

1) Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
2) Press the “MENU” button on the remote control about 5 seconds then option setting display is appeared. (See Fig. 2-4 and 2-5)
3) Select the option number (See Table 2-1 ; Page 2-5) of corresponding model with “FF” and “REW” button on the remote control.
4) If selecting the option number is completed, press the “PLAY” button of remote control. (If “PLAY” button is pressed, the selected number is changes reversed color. ; See Fig. 2-4 and 2-5)
5) Press the “OK (VCR)”, “MENU (VCP)” button of remote control again to store the option number. (“PLEASE WAIT” is displayed for a second as shown Fig. 2-6, 2-7 and this setting is completed.)
6) Turn the Power off.

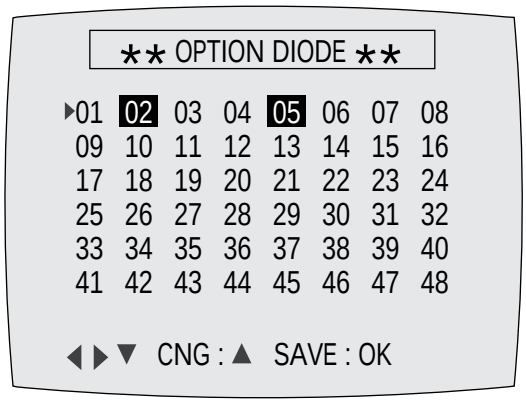


Fig. 2-4 (VCR)

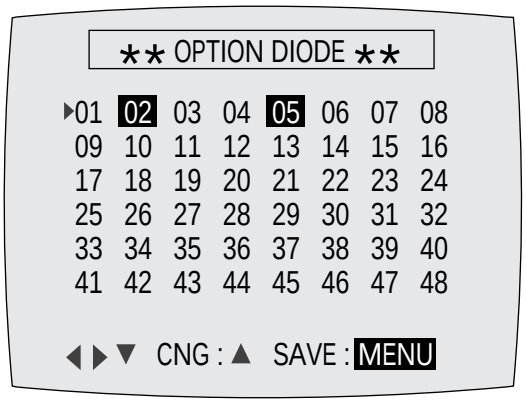


Fig. 2-5 (VCP)

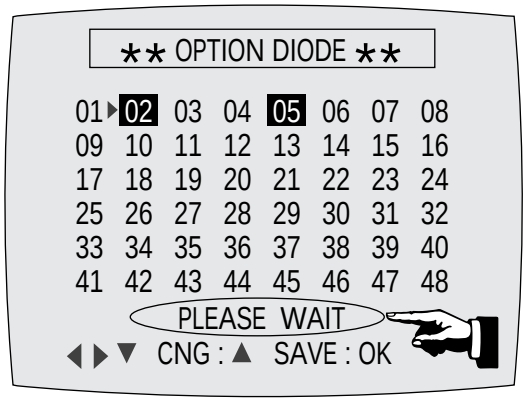


Fig. 2-6 (VCR)

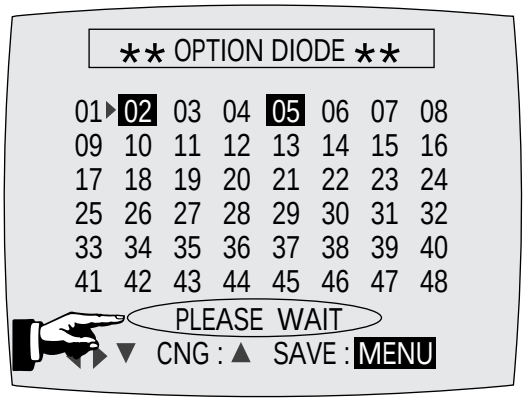


Fig. 2-7 (VCP)

<Table 2-1 NVRAM Option Number>

COUNTRY	MODELS	OPTION NUMBER
France	SV-627F	2, 4, 5, 6, 7, 8, 12, 13, 14, 15, 18, 19, 23, 24, 26, 29, 33, 36, 38, 41, 43, 44, 46, 47
	SV-623F	2, 5, 6, 8, 12, 13, 14, 15, 18, 19, 23, 26, 29, 35, 38, 44, 46
	SV-620F	5, 8, 12, 13, 14, 15, 18, 19, 23, 26, 29, 34, 40, 46
	SV-425F	2, 4, 5, 6, 7, 8, 12, 18, 19, 23, 24, 26, 29, 35, 38, 41, 43, 46, 47
	SV-423F	2, 5, 6, 8, 12, 18, 19, 23, 26, 29, 35, 38, 46
	SV-420F	5, 8, 12, 18, 19, 23, 26, 29, 34, 40, 46
	SV-223F	2, 5, 6, 18, 19, 23, 26, 29, 35, 38
	SV-220F	5, 18, 19, 23, 26, 29, 34, 40
U.K.	SV-627B	3, 4, 6, 7, 8, 10, 12, 13, 15, 23, 24, 27, 33, 36, 37, 38, 39, 40, 41, 43, 46, 47
	SV-625B	Drop
	SV-623B	3, 6, 7, 8, 10, 12, 13, 15, 23, 24, 27, 35, 37, 38, 46, 47
	SV-620B	6, 7, 8, 10, 12, 13, 15, 23, 24, 27, 35, 37, 38, 46, 47
	SV-225B	3, 4, 6, 7, 8, 10, 23, 24, 27, 35, 37, 38, 43
	SV-223B	3, 7, 8, 10, 24, 27, 35, 40
	SV-220B	8, 10, 27, 35, 40
	SV-120W	10, 17, 18, 29, 31, 32, 34, 37, 39, 40, 42
Germany	SV-627X	2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 32, 33, 36, 37, 38, 39, 40, 41, 43, 44
	SV-623X	2, 5, 7, 8, 9, 10, 12, 13, 14, 18, 23, 24, 29, 32, 35, 37, 38
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 29, 32, 35, 38
	SV-225X	Drop
	SV-223X	2, 7, 18, 24, 29, 32, 35, 40
	SV-6233X	2, 7, 8, 9, 10, 12, 13, 14, 18, 22, 24, 29, 32, 35, 37, 39, 40
	SV-2233X	2, 7, 18, 24, 29, 32, 35, 37, 39, 40
	SV-120W	9, 10, 17, 18, 29, 31, 32, 34, 37, 39, 40, 42
Spain	SV-627X	2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 31, 33, 36, 37, 38, 39, 40, 41, 43, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 31, 35, 38, 41, 44
	SV-623X	2, 5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 31, 35, 38
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 31, 35, 37, 38, 39
	SV-520X	2, 5, 6, 7, 8, 9, 10, 12, 13, 18, 23, 24, 31, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 31, 35, 38
	SV-421X	5, 8, 12, 18, 23, 31, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 31, 35, 38
	SV-221X	5, 18, 23, 31, 35, 40
	SV-120W	9, 10, 17, 18, 29, 31, 32, 34, 37, 39, 40, 42
Italy	SV-627X	2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 31, 33, 36, 37, 38, 39, 40, 41, 43, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 31, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 35, 37, 38, 39
	SV-520X	2, 5, 6, 7, 8, 9, 10, 12, 13, 18, 23, 24, 29, 31, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 29, 31, 35, 38
	SV-4215X	5, 8, 12, 18, 23, 29, 31, 35, 40
	SV-4213X	5, 8, 12, 18, 23, 29, 31, 35, 40
	SV-421X	5, 8, 12, 18, 23, 29, 31, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 29, 31, 35, 38
	SV-2215X	5, 18, 23, 29, 31, 35, 40
	SV-2213X	5, 18, 23, 29, 31, 35, 40
	SV-221X	5, 18, 23, 29, 31, 35, 40
Portugal	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 29, 31, 32, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 32, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 32, 35, 37, 38, 39
	SV-520X	2, 5, 6, 7, 8, 9, 10, 12, 13, 18, 23, 29, 31, 32, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 29, 31, 32, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 31, 32, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 29, 31, 32, 35, 38
	SV-221X	5, 18, 23, 29, 31, 32, 35, 40

<Table 2-1 NVRAM Option Number> - Continued

COUNTRY	MODELS	OPTION NUMBER
Denmark	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 24, 29, 30, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 30, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 30, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 29, 30, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 30, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 29, 30, 35, 38
	SV-220X	18, 29, 30, 35, 40,
	SV-2253X	2, 5, 6, 7, 18, 23, 24, 29, 30, 35, 39, 40
Sweden/Finland	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 24, 29, 30, 31, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 30, 31, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 30, 31, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 29, 30, 31, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 30, 31, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 29, 30, 31, 35, 38
	SV-220X	18, 29, 30, 31, 35, 40
	SV-2253X	2, 5, 6, 7, 18, 23, 24, 29, 30, 31, 35, 39, 40
Norway	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 24, 30, 31, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 30, 31, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 30, 31, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 30, 31, 35, 38
	SV-421X	5, 8, 12, 18, 23, 30, 31, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 30, 31, 35, 38
	SV-220X	18, 30, 31, 35, 40
	SV-2253X	2, 5, 6, 7, 18, 23, 24, 30, 31, 35, 39, 40
Netherlands	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 24, 29, 30, 32, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 29, 30, 32, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 30, 32, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 29, 30, 32, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 30, 32, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 29, 30, 32, 35, 38
	SV-220X	18, 29, 30, 32, 35, 40
	SV-2253X	2, 5, 6, 7, 18, 23, 24, 29, 30, 32, 35, 39, 40
Belgium	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 23, 24, 30, 33, 36, 37, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 30, 35, 38, 41, 44
	SV-621X	5, 6, 8, 9, 10, 12, 13, 14, 15, 18, 23, 30, 35, 37, 38, 39
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 30, 35, 38
	SV-421X	5, 8, 12, 18, 23, 30, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 24, 30, 35, 38
	SV-220X	18, 30, 35, 40
	SV-2253X	2, 5, 6, 7, 18, 23, 24, 30, 35, 39, 40
Switzerland	SV-627F	2, 4, 5, 6, 7, 8, 12, 13, 14, 15, 18, 19, 23, 24, 26, 31, 32, 33, 36, 38, 41, 43, 44
	SV-425F	2, 4, 5, 6, 7, 8, 12, 18, 19, 23, 24, 26, 31, 32, 35, 38, 41, 43
	SV-220F	5, 18, 19, 23, 26, 31, 32, 34, 40
Austria	SV-627X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 32, 33, 36, 37, 38, 39, 40, 41, 44
	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 24, 32, 35, 38, 41, 44
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 24, 32, 35, 38
	SV-225X	2, 5, 6, 7, 18, 23, 24, 32, 35, 38
Greece	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 32, 35, 38, 41, 44
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 29, 31, 32, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 31, 32, 35, 40
	SV-220X	18, 29, 31, 32, 35, 40
Croatia	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 32, 35, 38, 41, 44
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 29, 31, 32, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 31, 32, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 29, 31, 32, 35, 38
	SV-220X	18, 29, 31, 32, 35, 40
	SV-120W	9, 10, 17, 18, 29, 31, 32, 34, 37, 39, 40, 42

<Table 2-1 NVRAM Option Number> - Continued

COUNTRY	MODELS	OPTION NUMBER
Slovenia	SV-625X	2, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 18, 23, 29, 31, 32, 35, 38, 41, 44
	SV-425X	2, 5, 6, 7, 8, 12, 18, 23, 29, 31, 32, 35, 38
	SV-421X	5, 8, 12, 18, 23, 29, 31, 32, 35, 40
	SV-225X	2, 5, 6, 7, 18, 23, 29, 31, 32, 35, 38
	SV-220X	Drop
Hungary	SV-627X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 33, 37, 38, 39, 40, 41, 43, 44
	SV-625X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-425G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-420G	8, 11, 12, 18, 25, 29, 31, 32, 35, 40
	SV-225G	2, 5, 6, 7, 11, 18, 23, 25, 29, 31, 32, 35, 38
	SV-220G	11, 18, 25, 29, 31, 32, 35, 40
	SV-4253G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 39, 40, 41
	SV-4203G	8, 11, 12, 18, 25, 29, 31, 32, 35, 37, 39, 40
	SV-2203G	11, 18, 25, 29, 31, 32, 35, 37, 39, 40
Romania	SV-625X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-621X	5, 6, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 37, 38, 39
	SV-425G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-420G	8, 11, 12, 18, 25, 29, 31, 32, 35, 40
	SV-225G	2, 5, 6, 7, 11, 18, 23, 25, 29, 31, 32, 35, 38
	SV-220G	11, 18, 25, 29, 31, 32, 35, 40
Czecho	SV-625X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-621X	5, 6, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 37, 38, 39
	SV-425G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-420G	8, 11, 12, 18, 25, 29, 31, 32, 35, 40
	SV-225G	2, 5, 6, 7, 11, 18, 23, 25, 29, 31, 32, 35, 38
	SV-220G	11, 18, 25, 29, 31, 32, 35, 40
Poland	SV-627X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 33, 37, 38, 39, 40, 41, 43, 44
	SV-625X	2, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-621X	5, 6, 8, 11, 12, 13, 14, 15, 18, 23, 25, 29, 31, 32, 35, 37, 38, 39
	SV-425G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 38, 41
	SV-420G	8, 11, 12, 18, 25, 29, 31, 32, 35, 40
	SV-225G	2, 5, 6, 7, 11, 18, 23, 25, 29, 31, 32, 35, 38
	SV-220G	11, 18, 25, 29, 31, 32, 35, 40
	SV-4253G	2, 5, 6, 7, 8, 11, 12, 18, 23, 25, 29, 31, 32, 35, 39, 40, 41
	SV-4203G	8, 11, 12, 18, 25, 29, 31, 32, 35, 37, 39, 40
	SV-2203G	11, 18, 25, 29, 31, 32, 35, 37, 39, 40
Malaysia	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
Algeciras	SV-C620K	5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 23, 25, 26, 29, 31, 32, 36, 37, 41, 44, 46, 47
	SV-C80K	5, 6, 8, 9, 10, 11, 12, 18, 19, 23, 25, 26, 29, 31, 32, 35, 41, 45, 46
	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
	SV-C30K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 38, 40, 45
	SV-C10K	9, 10, 11, 17, 18, 19, 29, 31, 32, 34, 37, 39, 40, 42
Mauritania	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
Morocco	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
Algeria	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
South Africa	SV-620I	6, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 25, 26, 29, 31, 32, 36, 37, 41, 42, 44, 46, 47
	SV-C35K	5, 6, 9, 10, 11, 18, 19, 23, 25, 26, 29, 31, 32, 35, 39, 40
C.I.S.	SVR-629	2, 6, 8, 11, 12, 13, 16, 18, 19, 20, 21, 25, 30, 31, 32, 33, 36, 37, 41, 44, 46, 47
	SVR-623	6, 8, 11, 12, 13, 17, 18, 25, 30, 31, 32, 35, 41, 44, 45, 46, 47
Australia	SV-627B	1, 6, 8, 9, 12, 13, 14, 16, 17, 18, 20, 21, 25, 27, 29, 31, 32, 36, 37, 41, 44, 46, 47
	SV-620B	1, 6, 8, 9, 12, 13, 14, 17, 18, 25, 27, 29, 31, 32, 35, 38, 41, 44, 46
New Zealand	SV-620X	1, 6, 8, 12, 13, 14, 15, 17, 18, 25, 26, 29, 31, 32, 35, 38, 41, 44, 46, 47
U.A.E.	SV-620G	6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 20, 25, 26, 29, 31, 32, 36, 37, 41, 42, 46, 47
Iran	SV-1000S	6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 20, 25, 26, 29, 36, 37, 41, 42, 46, 47, 48
Saudi Arabia	SV-620G	6, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 20, 25, 26, 29, 31, 32, 36, 37, 41, 42, 46, 47

MEMO

3. Exploded View and Parts List

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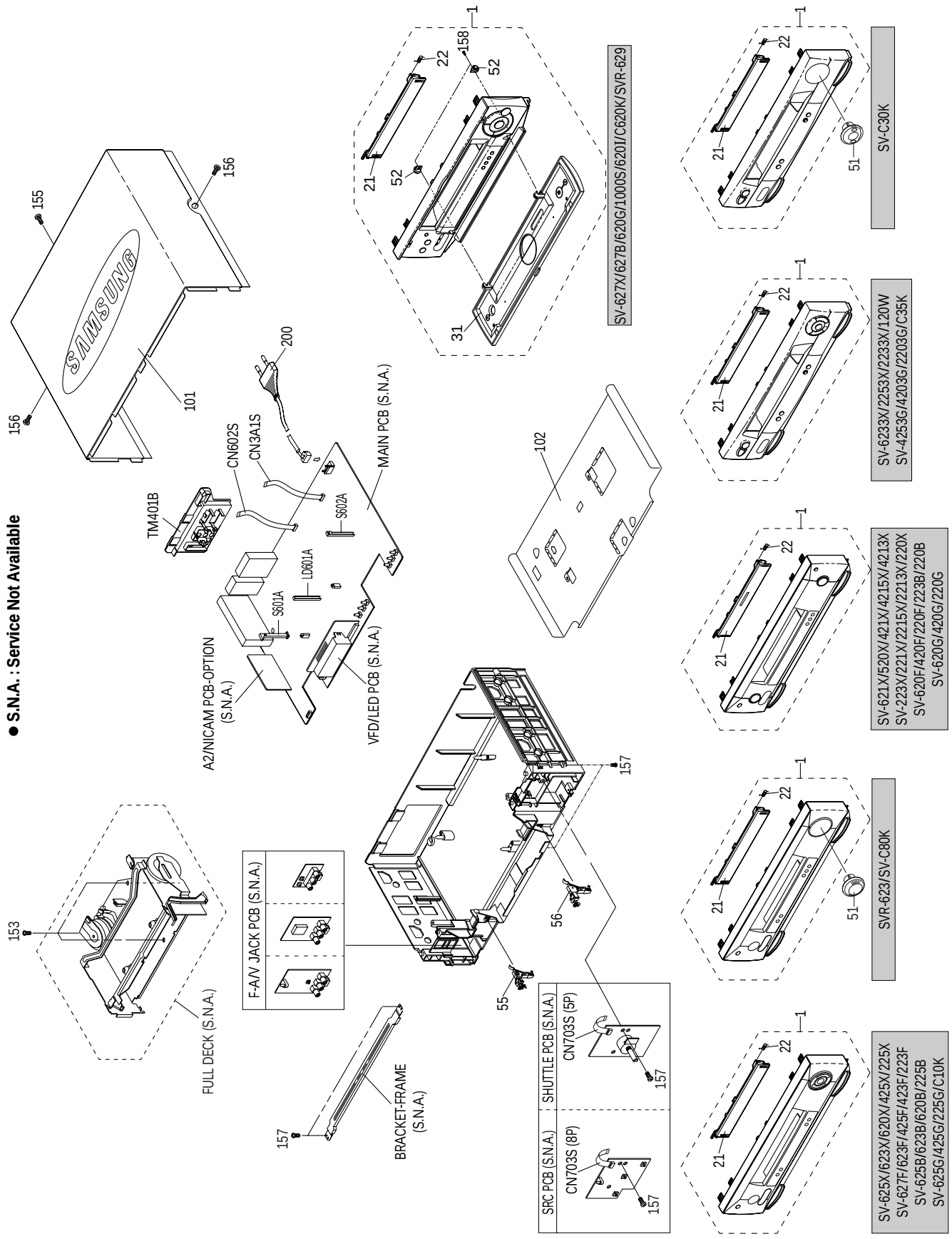
3-1 Cabinet Assembly - - -

3-1 Cabinet Assembly



Loc. No	Parts No.	Description ; Specification	Remark
1	**Refer to table below**	ASSY-PANEL FRONT;HIPS 94HB	
21	**Refer to table below**	DOOR-CASSETTE	
22	AC61-62032A	SPRING-MASK;X-9,-,SUS,-,4.4,-,SV-C130	
31	**Refer to table below**	DOOR FRONT-ASSY	
51	**Refer to table below**	KNOB-SHUTTLE ASSY;ABS94,HB,B	
52	62664-0021-00	ASSY-DAMPER	
55	AC61-30164D	LOCKER-CODO ASSY L;-,LUCEL+SECC+SUS,-,-,	(OPTIONAL)
56	AC61-30164C	LOCKER-CODO ASSY R;-,LUCEL+SECC+SUS,-,BL	(OPTIONAL)
101	**Refer to table below**	CABINET-TOP;X-9,SECC,PCM,0.5,360*208*41,	
102	AC63-32128A	COVER-BOTTOM;SV-C140F,SECC,387.7X197.6	
153	AC60-12126A	SCREW-BH;-,BH,-,4*12,FE,FZY,-,-,-	
155	AC60-12134A	SCREW-TAP BH;-,BH,-,2-4X16,-,FE	
157	AC60-10063A	SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18	
158	AC60-00001A	SCREW-TAP BH;-,BH,-,2-4X12,-,FE	
200	**Refer to table below**	POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-K	
CN3A1S	3809-001110	CABLE-FLAT;30V,80C,150mm,7P,1.25mm,UL289	
CN602S	3809-001112	CABLE-FLAT;30V,80C,130mm,5P,1.25mm,UL289	
CN703S	3809-001112	CABLE-FLAT;30V,80C,130mm,5P,1.25mm,UL289	5P (OPTIONAL)
	3809-001132	CABLE-FLAT;30V,80C,130mm,8P,1.25mm,UL2896	8P (OPTIONAL)
LD601A	AC61-21009A	HOLDER-LED;-,POM(M90-44),-,BLK,-,X-9	
S601A	AC61-21008A	HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9	
S602A	AC61-21008A	HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9	
TM401B	**Refer to table below**	CONNECTOR BOARD-ASSY;HIPS94	

REGION	COUNTRY	MODELS	1	21	31	51	101	TM401B	200
Europe	France	SV-627F	AC97-00011A	AC64-00096A	-	-	AC64-30899E	AC61-11061H	AC39-10019A
		SV-623F	AC97-00010A	AC64-00103G	-	-	AC64-30899E	AC61-11061H	AC39-10019A
		SV-620F	AC97-00013A	AC64-00103H	-	-	AC64-30899E	AC61-11061H	AC39-10019A
		SV-425F	AC97-00014A	AC64-00096B	-	-	AC64-30899E	AC61-11061N	AC39-10019A
		SV-423F	AC97-00015A	AC64-00054J	-	-	AC64-30899E	AC61-11061N	AC39-10019A
		SV-420F	AC97-00016A	AC64-00054K	-	-	AC64-30899E	AC61-11061N	AC39-10019A
		SV-223F	AC97-00012A	AC64-00054L	-	-	AC64-30899E	AC61-11061N	AC39-10019A
		SV-220F	AC97-00017A	AC64-00054M	-	-	AC64-30899E	AC61-11061N	AC39-10019A
	U.K.	SV-627B	AC97-00243A	AC64-52158T	AC64-00072A	-	AC64-30899E	AC61-11061K	AC39-10022K
		SV-625B	AC97-00018A	AC64-00096C	-	-	AC64-30899E	AC61-11061K	AC39-10022K
		SV-623B	AC97-00018B	AC64-00054N	-	-	AC64-30899E	AC61-11061L	AC39-10022K
		SV-620B	AC97-00019A	AC64-00054P	-	-	AC64-30899E	AC61-11061L	AC39-10022K
		SV-225B	AC97-00020A	AC64-00096D	-	-	AC64-30899A	AC61-11061Q	AC39-10022K
		SV-223B	AC97-00021A	AC64-00054Q	-	-	AC64-30899A	AC61-11061R	AC39-10022K
		SV-220B	AC97-00143A	AC64-00054R	-	-	AC64-30899A	AC61-11061R	AC39-10022K
		SV-120W	AC97-00213G	AC64-52172K	-	-	AC64-30899A	AC61-11061S	AC39-10022K
	Germany	SV-627X	AC97-00244A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-623X	AC97-00022A	AC64-00096E	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00024A	AC64-00096G	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-223X	AC97-00026A	AC64-00054S	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-6233X	AC97-00213A	AC64-52172F	-	-	AC64-30899A	AC61-11061L	AC39-10019A
		SV-2233X	AC97-00213B	AC64-52172E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-120W	AC97-00213G	AC64-52172K	-	-	AC64-30899A	AC61-11061S	AC39-10019A
	Spain	SV-627X	AC97-00245A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144A	AC64-00096H	-	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-623X	AC97-00144C	AC64-00054T	-	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027A	AC64-00054U	-	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-520X	AC97-00145A	AC64-00054V	-	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-221X	AC97-00029A	AC64-00054X	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-120W	AC97-00213G	AC64-52172K	-	-	AC64-30899A	AC61-11061S	AC39-10019A

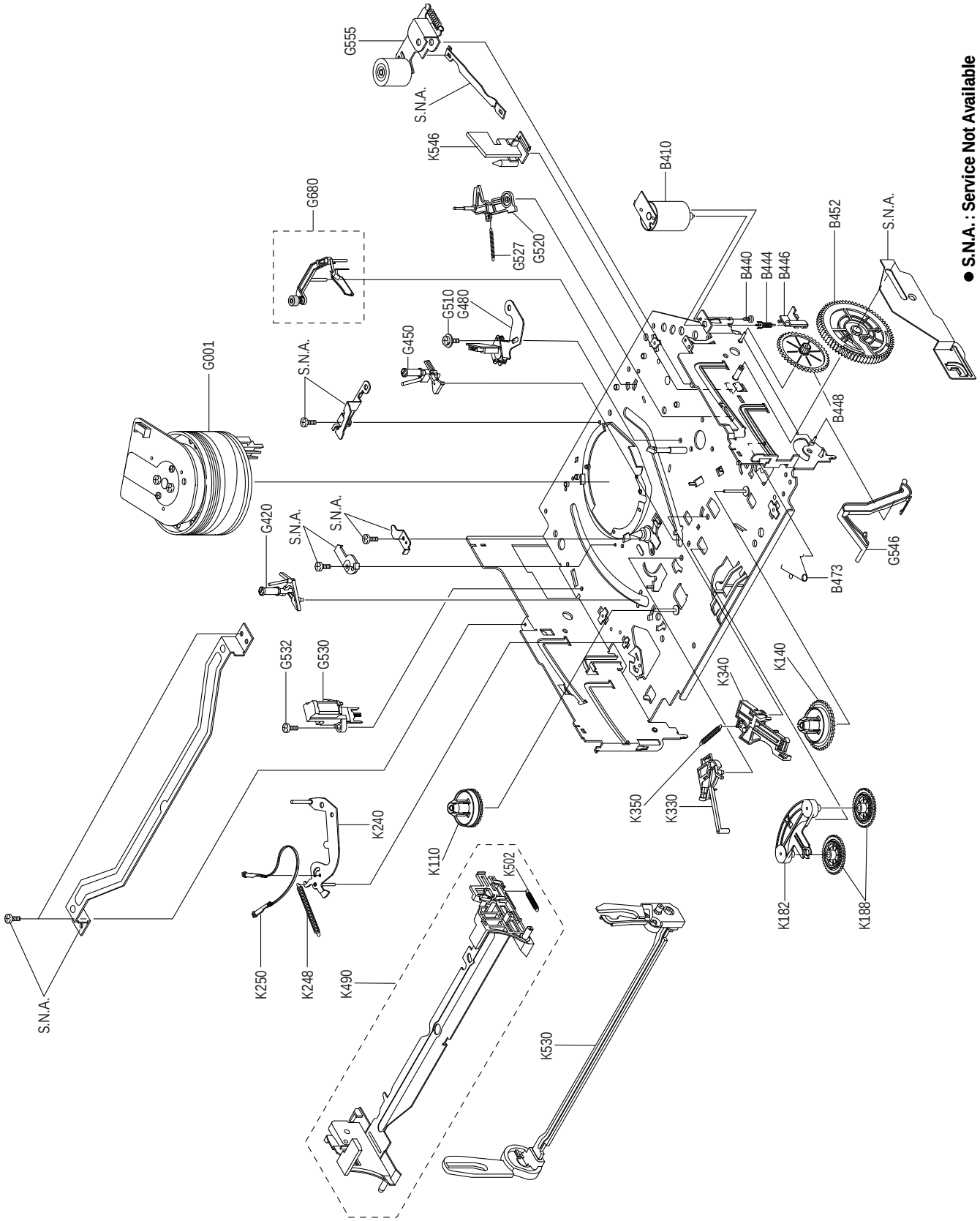
<Continued>

REGION	COUNTRY	MODELS	1	21	31	51	101	TM401B	200
Europe	Italy	SV-627X	AC97-00244A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-520X	AC97-00145B	AC64-00054Z	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-4215X	AC97-00146A	AC64-00103A	-	-	AC64-30899E	AC61-11061P	AC39-10019A
		SV-4213X	AC97-00147A	AC64-00103B	-	-	AC64-30899E	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-2215X	AC97-00148A	AC64-00103C	-	-	AC64-30899E	AC61-11061P	AC39-10019A
		SV-2213X	AC97-00148B	AC64-00103D	-	-	AC64-30899E	AC61-11061P	AC39-10019A
		SV-221X	AC97-00029A	AC64-00054X	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Portugal	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-520X	AC97-00145B	AC64-00054Z	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-221X	AC97-00029A	AC64-00054X	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Denmark	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2253X	AC98-11258P	AC64-52169C	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Sweden/Finland	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2253X	AC97-00213C	AC64-52169C	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Norway	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2253X	AC98-11258P	AC64-52169C	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Netherlands	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2253X	AC98-11258P	AC64-52169C	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Belgium	SV-627X	AC97-00245A	AC64-52158U	AC64-00072B	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2253X	AC98-11258P	AC64-52169C	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Switzerland	SV-627F	AC97-00150A	AC64-00096M		-	AC64-30899A	AC61-11061H	AC39-10019A
		SV-425F	AC97-00151A	AC64-00096N	-	-	AC64-30899A	AC61-11061N	AC39-10019A
		SV-220F	AC97-00152A	AC64-00103F	-	-	AC64-30899A	AC61-11061N	AC39-10019A
	Austria	SV-627X	AC97-00244A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A

<Continued>

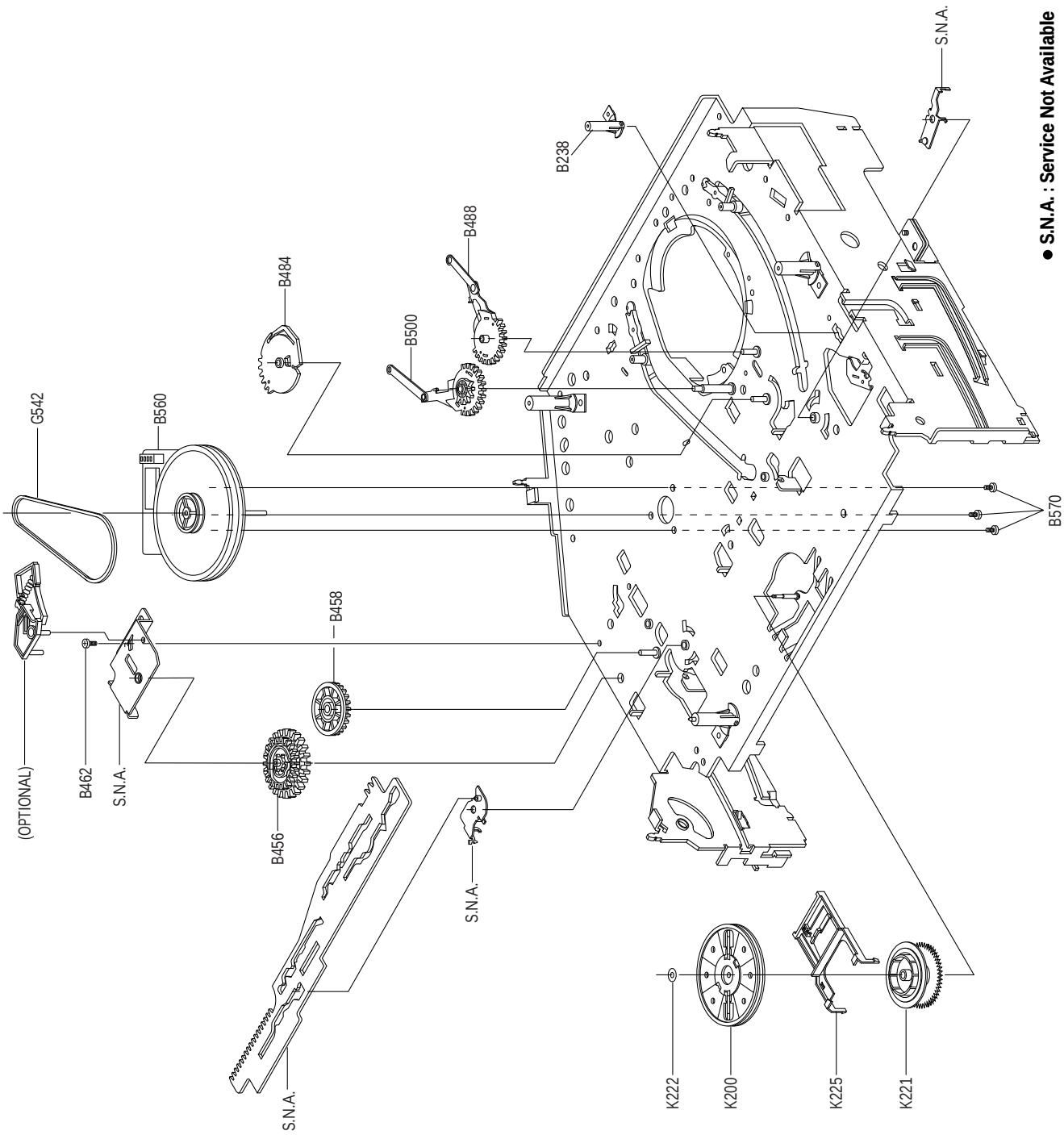
REGION	COUNTRY	MODELS	1	21	31	51	101	TM401B	200
Europe	Greece	SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
Middle Europe	Croatia	SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-120W	AC97-00213G	AC64-52172K	-	-	AC64-30899A	AC61-11061S	AC39-10019A
	Slovenia	SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425X	AC97-00023A	AC64-00096F	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-421X	AC97-00028A	AC64-00054W	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-225X	AC97-00025A	AC64-00096K	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220X	AC97-00030A	AC64-00103E	-	-	AC64-30899A	AC61-11061R	AC39-10019A
	Hungary	SV-627X	AC97-00244A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425G	AC97-00155A	AC64-00096Q	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-420G	AC97-00156A	AC64-00103K	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-225G	AC97-00157A	AC64-00096R	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220G	AC97-00158A	AC64-00103L	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-4253G	AC97-00213D	AC64-52172D	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-4203G	AC97-00213E	AC64-52172H	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2203G	AC97-00213G	AC64-52172G	-	-	AC64-30899A	AC61-11061R	AC39-10019A
	Romania	SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425G	AC97-00155A	AC64-00096Q	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-420G	AC97-00156A	AC64-00103K	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-225G	AC97-00157A	AC64-00096R	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220G	AC97-00158A	AC64-00103L	-	-	AC64-30899A	AC61-11061R	AC39-10019A
	Czecho	SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425G	AC97-00155A	AC64-00096Q	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-420G	AC97-00156A	AC64-00103K	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-225G	AC97-00157A	AC64-00096R	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220G	AC97-00158A	AC64-00103L	-	-	AC64-30899A	AC61-11061R	AC39-10019A
	Poland	SV-627X	AC97-00244A	AC64-52158U	AC64-00072F	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-625X	AC97-00144B	AC64-00096L	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-621X	AC97-00027B	AC64-00054Y	-	-	AC64-30899A	AC61-11061J	AC39-10019A
		SV-425G	AC97-00155A	AC64-00096Q	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-420G	AC97-00156A	AC64-00103K	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-225G	AC97-00157A	AC64-00096R	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-220G	AC97-00158A	AC64-00103L	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-4253G	AC98-11258Q	AC64-52172D	-	-	AC64-30899A	AC61-11061P	AC39-10019A
		SV-4203G	AC98-11259G	AC64-52172H	-	-	AC64-30899A	AC61-11061R	AC39-10019A
		SV-2203G	AC98-11259H	AC64-52172G	-	-	AC64-30899A	AC61-11061R	AC39-10019A
Africa	Algeciras	SV-C620K	AC97-00342A	AC64-52164C	AC64-00072J	-	AC64-30899E	AC61-11061J	AC39-10019A
		SV-C80K	AC97-00157F	AC64-00054F	-	AC97-00216B	AC64-30899E	AC61-11061P	AC39-10019A
		SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899E	AC61-11061P	AC39-10019A
		SV-C30K	AC97-00098B	AC64-52172R	-	AC97-00216B	AC64-30899E	AC61-11061P	AC39-10019A
		SV-C10K	AC97-00098D	AC64-52172T	-	-	AC64-30899E	AC61-11061S	AC39-10019A
	Mauritania	SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899E	AC61-11061P	AC39-10019A
	Morocco	SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899A	AC61-11061P	AC39-10019A
	Algeria	SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899E	AC61-11061P	AC39-10019A
	South Africa	SV-620I	AC97-00247A	AC64-52158W	AC64-00072G	-	AC64-30899E	AC61-11061M	AC39-10019A
		SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899E	AC61-11061P	AC39-10019A
C.I.S.	C.I.S.	SVR-629	AC97-00248A	AC64-52158X	AC64-00072D	-	AC64-30899E	AC61-11061L	AC39-10019A
		SVR-623	AC97-00331A	AC64-00096S	-	AC97-00216D	AC64-30899A	AC61-11061M	AC39-10019A
Oceania	Australia	SV-627B	AC97-00249A	AC64-52158Y	AC64-00072E	-	AC64-30899E	AC61-11061M	AC39-10015A
		SV-620B	AC97-00157G	AC64-00054G	-	-	AC64-30899A	AC61-11061M	AC39-10015A
	New Zealand	SV-620X	AC97-00157D	AC64-00103M	-	-	AC64-30899A	AC61-11061M	AC39-10015A
Asia	U.A.E.	SV-620G	AC97-00246A	AC64-52158V	AC64-00072C	-	AC64-30899E	AC61-11061M	AC39-10019A
	Iran	SV-1000S	AC97-00326A	AC64-52158Z	AC64-00072H	-	AC64-30899E	AC61-11061M	AC39-10019A
	Saudi Arabia	SV-620G	AC97-00246A	AC64-52158V	AC64-00072C	-	AC64-30899E	AC61-11061M	AC39-10019A
	Malaysia	SV-C35K	AC97-00098A	AC64-52172J	-	-	AC64-30899E	AC61-11061P	AC39-10019A

3-2 Mechanical Parts (Top Side)



Loc. No	Parts No.	Description ; Specification	Remark
B410	AC31-12016A	MOTOR-LOADING ASSY;-,-,X-9	
B440	AC60-10515A	SCREW-MACHINE;-,PH,+,-,M3,L3,ZPC,-,YEL	
B444	AC66-20571A	GEAR-WORM;-,POM SW-01,0.5,2,-,4.5,X-9	
B446	AC61-21005A	HOLDER-WORM;-,POM M90-44,-,-,-,X-9	
B448	AC66-20573A	GEAR-WORM WHEEL;-,POM SW-01,0.6,11,-,6.6	
B452	AC66-20575A	GEAR-FL CAM;-,POM SW-01,M0.6,Z88,-,PCD58	
B473	AC61-60559A	SPRING-PINCH DRIVE;-,TS,SUS304,PI0.5,OD4	
G001	AC96-10481L	ASSY-CYLINDER;CX-9, PAL 6HD	(6HD NON-DIAMOND HEAD)
	AC96-10481J	ASSY-CYLINDER;CX-9, PAL 4HD	(4HD NON-DIAMOND HEAD)
	AC96-10481G	ASSY-CYLINDER;CX-9, PAL 2HD	(2HD NON-DIAMOND HEAD)
	AC96-10482P	ASSY-CYLINDER;CX-9, PAL 6HD/DLC	(6HD DIAMOND HEAD)
	AC96-10482J	ASSY-CYLINDER;CX-9, PAL 4HD/DLC	(4HD DIAMOND HEAD)
	AC96-10482D	ASSY-CYLINDER;CX-9, PAL 2HD(SP)/DLC	(2HD DIAMOND HEAD)
	AC96-10482F	ASSY-CYLINDER;CX-9, PAL 2HD(LP)	SV-225B/223B/220B ONLY
	AC96-10483U	ASSY-CYLINDER;CX-9, SECAM 6HD/DLC	SV-627F/623F/620F ONLY
	AC96-10483R	ASSY-CYLINDER;CX-9, SECAM 4HD	SV-425F/423F/420F ONLY
G420	AC66-80142A	SLIDER-SUPPLY ASSY;-,X-9(TS),-,-,-,X-9	
G450	AC66-80141A	SLIDER-TAKE UP ASSY;-,X-9(TS),-,-,-,X-9	
G480	AC33-10217H	HEAD-ACE ASSY;-,-,-,-,X-9	
G510	AC60-10518A	SCREW-TAP TITE;-,PH,+,SW+ZW,M2.6,L5.6,ZP	
G520	AC66-30539A	LEVER-#9 GUIDE ASSY;-,X-9(TS),-,-,-,X-9	
G527	AC61-60553A	SPRING-#9 GUIDE;-,ES,SUS304-WPB,OD3.1,0.	
G530	AC33-10217G	HEAD-FE;VAA00000275,-,-,-,X-9	
G532	AC60-10519A	SCREW-TAP TITE;-,PH,+,-,M2.6,L8,ZPC	
G546	AC66-30535A	LEVER-FL DOOR;-,POM M90-44,-,-,BLK,X-9	
G555	AC59-90403A	UNIT-PINCH ASSY;X-9,-	
G680	AC66-30557A	LEVER-H/CLEANER ASSY;-,POM+URETHANE,-,-	(OPTIONAL)
K110	AC66-10267A	REEL-DISK S;-,POM M90-44,-,-,X-9	
K140	AC66-10268A	REEL-DISK T;-,POM M90-44,-,-,X-9	
K182	AC66-30524A	LEVER-IDLER;-,POM9044,-,-,-,-	
K188	AC66-20577A	GEAR-IDLER;-,PEBAX 7033,-,-,-,-,X-9	
K240	AC66-30538A	LEVER-TENSION ASSY;-,X-9(TS),-,-,-,X-9	
K248	AC61-60554A	SPRING-TENSION LEVER;-,ES,SUS304-WPB,OD3	
K250	AC63-12029A	BAND-BRAKE ASSY;-,X-9(TS),-,-,-,X-9	
K330	AC66-30550A	LEVER-S.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K340	AC66-30549A	LEVER-T.BRAKE ASSY;-,POM+SUS,-,-,-,X-9	
K350	AC61-60564A	SPRING-BRAKE;-,TENSION,SWP-A,0.25,3,-,X-	
K490	AC61-21010B	HOLDER-CASS ASSY;-,SECC+POM+SUS,-,-,-,X-	
K502	AC61-60561A	SPRING-FL.LEVER-LR;-,ES,SUS304 WPB,PI2.7	
K530	AC66-30546A	LEVER-FL.ARM ASS'Y;-,SECC+POM+SUS,-,-,-,	
K546	AC61-50658A	GUIDE-CASS. DOOR;-,POM M90-44,-,-,NTR,-,	

3-3 Mechanical Parts (Bottom Side)



Loc. No	Parts No.	Description ; Specification	Remark
B238	AC61-50660A	SLEEVE-TENSION;-,POM M90-44,-,-,ID3,-,-	
B456	AC66-20576A	GEAR-JOINT 1;-,POM SW-01,M1.0,Z22,-,PCD2	
B458	AC66-20574A	GEAR-JOINT 2;-,POM SW-01,M1.0,Z14,-,PCD1	
B462	AC60-10517A	SCREW-TAP TITE;-,PH,+,-,M2.6,L5,ZPC,-,YE	
B484	AC66-20580A	GEAR-LOADING DRIVE;-,POM SW-01,M1.0,Z32,	
B488	AC66-30543A	LEVER-S LOAD ASSY;-,-,-,-,-,X-9	
B500	AC66-30542A	LEVER-T LOAD ASSY;-,-,-,-,-,X-9	
B560	AC31-12017A	MOTOR-CAPSTAN;DMVCMC07C,-,X-9	
B570	AC60-10514A	SCREW-CAPSTAN;-,PH,+,M2.6,L6,-	
G542	AC66-60051A	BELT-PULLEY;-,5CM-70,2 * 2,-,71.3,-,X-9	
K200	AC61-21012A	HOLDER-CLUTCH ASSY;-,-,-,-,-,X-9	
K221	AC66-20581A	GEAR-CENTER ASSY;-,POM,M=O.5,-,HIGHT T.,	
K222	AC60-30306A	WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS	
K225	AC66-30547A	LEVER-UP DOWN ASSY;-,POM+SUS,-,-,-,X-9	

MEMO

4. Electrical Parts List

Loc.No	Part No	Description ; Specification	Remark
-	-	**ASSY-MAIN;X-9**	**S.N.A.**
S.M.P.S. (230 VOLTAGE) PARTS			
BD1SD1	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
BD1SR1	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
BD1SS2	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
BD1SS3	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
C1SD03	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x	
C1SD04	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x	
C1SD11	2401-003302	C-AL;47uF,20%,400V,GP,TP,18X31.5,7.	
C1SD12	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x	
C1SR12	2401-000905	C-AL;22UF,20%,16V,BP,-,6X11,2.5MM	
C1SR13	2301-000361	C-FILM,PEF;1.2NF,10%,50V,TP,-,5MM	
C1SR14	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C1SS01	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1SS02	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1SS12	2201-000129	C-CERAMIC,DISC;100pF,10%,1KV,Y5P,TP,6x5,	
C1SS31	2401-000385	C-AL;10uF,20%,100V,GP,TP,6.3x11,5	
C1SS32	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS33	2401-002162	C-AL;1000uF,20%,25V,WT,TP,10x20,5mm	
C1SS34	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS35	2401-001992	C-AL;2200uF,20%,10V,LZ,TP,10x25mm	
C1SS36	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	
C1SS37	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	VFD MODEL OPTION
C1SS38	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	VFD MODEL OPTION
C1SS39	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C1SS40	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm	VFD MODEL OPTION
C1SS41	2301-000423	C-FILM,PEF;3.3NF,5%,100V,TP,7X10X4.5MM,5	
CN1SS1	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	
D1SD31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SD32	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	VFD MODEL OPTION
D1SR11	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1SS01	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS02	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS03	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS04	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS11	0402-000276	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
D1SS12	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS32	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP	
D1SS33	0404-000128	DIODE-SCHOTTKY;FMB-G14L,45V,5A,TO-220F,T	HI-FI ONLY
D1SS33	0402-000431	DIODE-SCHOTTKY;FML-M02S,45V,5A,TO-220F,T	MONO ONLY
D1SS44	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP ⚠	VFD MODEL OPTION
F1SS01	3601-001123	FUSE-FERRULE;250V,1.6A,TIME-LAG,CERAMIC,	⚠
IC1SS1	0604-001028	PHOTO-COUPLER;TR,50-600%,250mW,DIP-4,ST	⚠
IC1SS2	AC14-12006D	IC;KA431Z,TO-92,TAPING	⚠
L1SS01	AC29-30050B	FILTER-LINE NOISE;-,400uH,-,AC250V,TR12.	⚠
L1SS02	AC29-30050C	FILTER-LINE NOISE;-,20mH,0.35A,AC250V,BS	
L1SS31	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
L1SS32	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	⚠
PT1SS1	AC26-20120L	TRANS-SWITCHING;DP,230V,UL/CSA/DEMKO,EE2	
Q1SR01	0502-001050	TR-POWER;2SC4517A,NPN,30W,TO-220,ST,10-	
Q1SR12	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
R1SD11	2001-000305	R-CARBON;110Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1SD12	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1SD13	2001-000305	R-CARBON;110Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1SD14	2001-000305	R-CARBON;110Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1SD15	2001-000305	R-CARBON;110Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1SD16	2006-000273	R-CEMENT;27Kohm,5%,2W,CA,BK,6.4x27x6.4m	
R1SD31	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1SD32	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,-	
R1SR11	2003-000119	R-METAL OXIDE;0.68ohm,5%,2W,AE,TP,6x16mm	
R1SR12	2003-000264	R-METAL OXIDE;300ohm,5%,1W,AD,TP,4.3x12m	
R1SR14	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1SS10	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,ST,7.5x11x20.	
R1SS13	2003-000148	R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM	
R1SS32	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R1SS33	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R1SS34	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	⚠
VA1SS1	1405-001026	VARISTOR;470V,600A,9x7mm,TP	
ZD1SS1	0403-000571	DIODE-ZENER;UZP43B,43V,40-46V,1W,DO-41,T	
S.M.P.S. (FREE VOLTAGE) PARTS			
BD1SD1	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
BD1SF1	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
BD1SS2	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
BD1SS3	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
C1SD03	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x	
C1SD04	2201-000934	C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,18x	
C1SD11	2401-003303	C-AL;82uF,20%,400V,GP,BK,22X30,10	⚠
C1SD12	2301-000140	C-FILM,PEF;10nF,10%,630V,BK,16.5X9.5X5.7	⚠
C1SF12	2401-000970	C-AL;22uF,20%,50V,WT,TP,5x11,5	
C1SF13	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C1SF14	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,5	
C1SF15	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	⚠
C1SS01	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	⚠
C1SS02	2305-001021	C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13.	
C1SS12	2201-000129	C-CERAMIC,DISC;100pF,10%,1KV,Y5P,TP,6x5,	
C1SS31	2401-000385	C-AL;10uF,20%,100V,GP,TP,6.3x11,5	
C1SS32	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS33	2401-002162	C-AL;1000uF,20%,25V,WT,TP,10x20,5mm	
C1SS34	2401-001126	C-AL;330uF,20%,25V,WT,TP,10x12.5,5	
C1SS35	2401-001992	C-AL;2200uF,20%,10V,LZ,TP,10x25mm	
C1SS36	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	
C1SS37	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	VFD MODEL OPTION
C1SS38	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	VFD MODEL OPTION
C1SS39	2301-000129	C-FILM,PEF;100nF,5%,50V,10X9X4.3X5,5mm,T	
C1SS40	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	VFD MODEL OPTION
C1SS41	2301-000423	C-FILM,PEF;3.3NF,5%,100V,TP,7X10X4.5MM,5	
CN1SS1	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA	
D1SD31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SD32	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP ⚠	VFD MODEL OPTION
D1SS01	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS02	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS03	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	⚠
D1SS04	0402-001196	DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP	
D1SS11	0402-000276	DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP	
D1SS12	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
D1SS32	0402-001194	DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP	
D1SS33	0404-000128	DIODE-SCHOTTKY;FMB-G14L,45V,5A,TO-220F,T	HI-FI ONLY
D1SS33	0402-000431	DIODE-SCHOTTKY;FML-M02S,45V,5A,TO-220F,T ⚠	MONO ONLY
D1SS44	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	VFD MODEL OPTION
F1SS01	3601-001123	FUSE-FERRULE;250V,1.6A,TIME-LAG,CERAMIC,	⚠
IC1SF1	1203-001049	IC-PWM CONTROLLER:1L0380,TO-220F,4P,10MI	⚠
IC1SS1	0604-001028	PHOTO-COUPLER;TR,50-600%,250mW,DIP-4,ST	⚠
IC1SS2	AC14-12006D	IC;KA431Z,TO-92,TAPING	⚠
L1SS01	AC29-30050B	FILTER-LINE NOISE;-,400uH,-,AC250V,TR12.	
L1SS02	AC29-30050C	FILTER-LINE NOISE;-,20mH,0.35A,AC250V,BS	
L1SS31	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	⚠
L1SS32	AC27-12001N	COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-	
PT1SS1	AC26-20120K	TRANS-SWITCHING;DP,100V-240V,DEMKO,EE282	
R1SD11	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1SD12	2001-000302	R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm	

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R1SD13	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1SD14	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1SD15	2001-000076	R-CARBON;47Kohm,5%,1/4W,AA,TP,2.4x6.4mm	
R1SD16	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R1SD31	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1SD32	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,-	
R1SS10	2006-000262	R-CEMENT;2.7ohm,10%,2W,CB,ST,7.5x11x20.	
R1SS11	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R1SS13	2003-000148	R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM	
D1SS31	0402-001195	DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP	
R1SS32	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R1SS33	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	⚠
R1SS34	2004-000459	R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m	
VA1SS1	1405-001026	VARISTOR;470V,600A,9x7mm,TP	
ZD1SF1	0403-000539	DIODE-ZENER;MTZ18C,18V,17.42-18.33V,500m	
ZD1SF2	0403-000294	DIODE-ZENER;MTZ4.7B,4.7V,4.55-4.80V,500m	
ZD1SS1	0403-000571	DIODE-ZENER;UZP43B,43V,40-46V,1W,DO-41,T	
POWER DRIVE PARTS			
C1P101	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	CANAL OPTION
C1P102	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C1P103	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P104	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C1P105	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C1P106	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P107	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C1P108	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C1P110	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P115	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P116	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C1P117	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	CANAL OPTION
D1P101	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P103	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1P104	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1P105	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1P108	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1P109	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P113	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D1P114	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	CANAL OPTION
D1P116	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	CANAL OPTION
D1P117	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D1P118	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
DDC101	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
DDC102	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
DDC103	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
DDC104	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
DDC105	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
DDC106	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	VCP ONLY
JC803	AC37-22002R	JACK-DC;12.5mm,DUAE-9812,4P,BULK,8PIN	VCP ONLY
Q1P101	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P102	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P103	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P104	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,	
Q1P105	0504-000116	TR-DIGITAL;KSR1001,NPN,300mW,4.7K-4.7K,T	
Q1P108	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	CANAL OPTION
Q1P114	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
Q1P115	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q1P116	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q1P117	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
R1P103	2001-000034	R-CARBON;220OHM,5%,1/4W,AA,TP,-	
R1P105	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,-	
R1P106	2001-000611	R-CARBON;3.9KOHM,5%,1/4W,AA,TP,-	
R1P107	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1P108	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R1P109	2001-000038	R-CARBON;390ohm,5%,1/4W,AA,TP,2.4x6.4mm	VFD MODEL ONLY
R1P110	2001-000038	R-CARBON;390ohm,5%,1/4W,AA,TP,2.4x6.4mm	VFD MODEL ONLY

Loc.No	Part No	Description ; Specification	Remark
R1P111	2001-000110	R-CARBON;10ohm,5%,1/4,AA,TP,2.4X6.4mm	VFD MODEL ONLY
R1P112	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1P117	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R1P127	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R1P128	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R1P129	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
ZD1P01	0403-001211	DIODE-ZENER;MTZJ12B,12V,11.44-12.03V,500	
ZD1P02	0403-000717	DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m	
ZD1P03	0403-000720	DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500	
ZD1P06	0403-001211	DIODE-ZENER;MTZJ12B,12V,11.44-12.03V,500	CANAL OPTION
SYSTEM CONTROL/SERVO PARTS			
C601	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C602	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C603	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C604	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C605	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C607	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C608	2401-002259	C-AL;0.1F,+80-20%,5.5V,-,TP,12.5x11	BACK-UP(1HR)
C608	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	BACK-UP(30SECONDS)
C610	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C611	2301-000392	C-FILM,PEF;15nF,5%,50V,TP,6.5x8.5x3.2mm,	
C612	2401-000118	C-AL;1000uF,20%,10V,GP,TP,10x12.5,5	
C614	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C618	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C619	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C620	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C621	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C622	2301-000471	C-FILM,PEF;68nF,5%,50V,TP,9x12x4.5mm,5mm	
C623	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C624	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
C625	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
C626	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
C627	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
C628	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C633	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C634	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C635	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
C636	2202-000183	C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP	
C637	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C638	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C639	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
C640	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C641	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C642	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C643	2401-002095	C-AL;47uF,20%,25V,GP,TP,6.3x5,5mm	
C645	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C646	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C690	2301-000471	C-FILM,PEF;68nF,5%,50V,TP,9x12x4.5mm,5mm	
C691	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C699	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
CN601	AC39-20817S	LEAD CONNECTOR-ASSY;DP,SMH200-02,YBH200-	
CN602	3708-001163	CONNECTOR-FPC/FC/PIC;5P,1.25mm,STRAIGHT,	
CN604	3711-003749	CONNECTOR-HEADER;BOX,8P,2R,2mm,STRAIGHT,	
D603	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D604	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D605	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D607	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	ULP OPTION
D611	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D613	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D620	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
D621	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC601	AC09-00008C	IC-MCU;UPD784927GF-111-3BA,100P,-,N90-11	VCR ONLY
IC601	AC09-00010A	IC-MCU;UPD784915AGF-116-3BA	VCP ONLY
IC602	1003-001162	IC-MOTOR DRIVER;KA3082,SIP,10PIN,25MIL,D	
IC604	AC14-12006C	IC;KA7533,DIP,-	

◆ **ULP : ULTRA LONG PLAY**

Loc.No	Part No	Description ; Specification	Remark
IC605	1103-001116	IC-EEPROM;24C16,2Kx8BIT,DIP,8P,300MIL,10	With SRC FUCTION
IC605	1103-001101	IC-EEPROM;24C08,1028x8BIT,DIP,8P,300MIL,	NON-SRC FUNCTION
IC605	1103-000190	IC-EEPROM;24C02,256x8BIT,DIP,8P,300MIL,1M.E.ASIA REGION ONLY	
IC608	1203-000515	IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL	
L601	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L603	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L604	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L605	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD601	0601-000517	LED-IR;RECTANGULA,4x6.0mm,75mW,6V,950	
PT601	0604-001122	PHOTO-INTERRUPTER;TR,0.065%,150mW,DIP-4,	
PT602	0604-001122	PHOTO-INTERRUPTER;TR,0.065%,150mW,DIP-4,	
Q602	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R601	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,-	ULP OPTION
R602	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x	FRANCE REGION ONLY
R603	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x	FRANCE REGION ONLY
R603	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-FRANCE REGION ONLY
R604	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R605	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R608	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R609	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R613	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R641	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R642	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R644	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R650	2003-000259	R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM	
R651	2001-000010	R-CARBON;68Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R652	2001-000568	R-CARBON;27ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R654	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R655	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R656	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R657	2001-000010	R-CARBON;68Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R660	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R661	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R666	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R667	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R668	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R669	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R670	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R671	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R672	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R673	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R674	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R675	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R676	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R677	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R678	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R679	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R682	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R685	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R687	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R690	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R691	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R692	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R693	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R694	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
S601	0603-001011	PHOTO-TR;NPN,35V,6V,50mA,75mW,BK	
S602	0603-001011	PHOTO-TR;NPN,35V,6V,50mA,75mW,BK	
SW601	AC34-20100A	SWITCH-MODE;-,-,X-9,-	
SW602	AC34-20100B	SWITCH-REC;-,-,X-9,-	
W229	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,-	
XT601	2801-003318	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAP,12.5	
XT602	2801-003139	CRYSTAL-UNIT;8MHz,50ppm,28-AAA,22pF,80oh	

AUDIO/VIDEO PARTS

C301	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	
C302	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C303	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C304	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,	
C305	2202-000164	C-CERAMIC,MLC-AXIAL;.18NF,10%,50V,Y5P,TP	
C306	2202-000814	C-CERAMIC,MLC-AXIAL;390pF,10%,50V,Y5P,TP	
C307	2202-000162	C-CERAMIC,MLC-AXIAL;.015NF,5%,50V,SL,TP,	
C308	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C309	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C310	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C311	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C312	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	F-A/V OPTION
C313	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C314	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C315	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C316	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C318	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C320	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C321	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C322	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C323	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C324	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C325	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C326	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C327	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C328	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C329	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C330	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C331	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C332	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C333	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C334	2301-000402	C-FILM,PEF;1nF,5%,50V,TP,5x7x2.8mm,5mm	
C335	2401-001915	C-AL;1uF,20%,50V,GP,TP,3x5,5	
C336	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C337	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C338	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C339	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,	
C340	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C341	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C342	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C343	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C345	2201-002031	C-CERAMIC,DISC;5pF,0.25pF,50V,NPO,TP,5x3	
C346	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C347	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.	
C348	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.	
C349	2202-000849	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.	
C350	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C360	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	F-A/V OPTION
C380	2202-000849	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.	
C381	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C390	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C399	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3A01	2401-003122	C-AL;4.7uF,20%,50V,LL,TP,4X7,1.5	
C3A02	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3A04	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3A05	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	ULP OPTION
C3A07	2301-000392	C-FILM,PEF;15nF,5%,50V,TP,6.5x8.5x3.2mm,	
C3A08	2301-001014	C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm	
C3A09	2301-001014	C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm	
C3A10	2301-000314	C-FILM,PEF;8.2nF,5%,50V,TP,6.5x3.0x5.5mm	
C3A12	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C3A13	2301-000161	C-FILM,PEF;12nF,5%,50V,6.5X5.5X3.0X5,5mm	
C3A14	2301-001014	C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm	
C3A15	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C3A16	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C3A17	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C3A18	2301-000402	C-FILM,PEF;1nF,5%,50V,TP,5x7x2.8mm,5mm	
C3A21	2301-000008	C-FILM,PEF;2.2nF,5%,50V,TP,5.5X7X3,5mm	

Loc.No	Part No	Description ; Specification	Remark
C3A22	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	MONO ONLY
C3A23	2401-001169	C-AL;33UF,20%,16V,GP,-,6.3X7,2.5MM	
C3A24	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3A25	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C3A29	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3A30	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C3A31	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	MONO ONLY
CN301	3708-000391	CONNECTOR-FPC/FC/PIC;10P,1.25MM,STRAIGHT	HI-FI ONLY
CN301	3708-000395	CONNECTOR-FPC/FC/PIC;8P,1.25MM,STRAIGHT,	MONO ONLY
CN3A01	3708-001302	CONNECTOR-FPC/FC/PIC;7P,1.25mm,STRAIGHT,	
CN3A02	3711-002445	CONNECTOR-HEADER;BOX,2P,2R,1.5MM,STRAIGH	
D302	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
FL3A01	AC27-80100A	COIL-OSC;126QN-K5272YHC=K,-,AM	
IC301	1204-001410	IC-VIDEO PROCESS;LA71590M,QFP,100P,-,PLA	PAL SYSTEM
IC301	1204-001403	IC-VIDEO PROCESS;LA71570M,QFP,100P,-,PLA	MULTI SYSTEM
L301	2701-000206	INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM	
L302	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L303	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L304	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L305	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L306	2701-000119	INDUCTOR-AXIAL;120UH,5%,2.4X3.4MM	
L310	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L3A01	2702-000120	INDUCTOR-RADIAL;15mH,5%,6.2x7.4mm	
L3A02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L3A03	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
Q302	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q303	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q304	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q308	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q309	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q310	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	HI-FI ONLY
Q3A01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3A03	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A04	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A05	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3A06	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3A07	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	ULP OPTION
Q3A08	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	ULP OPTION
R301	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R302	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R303	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,-	
R304	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R305	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,-	
R306	2001-000232	R-CARBON;1.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R308	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R309	2001-000723	R-CARBON;4.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R311	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R312	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R313	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R314	2001-000924	R-CARBON;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R315	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R316	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,-	
R317	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R318	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R320	2001-000009	R-CARBON;20KOHM,5%,1/8W,AA,TP,-	
R321	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R322	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R324	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	2H'D LP OPTION
R325	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R326	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R327	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R328	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R329	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R330	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R331	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R332	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R333	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R334	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R335	2001-000800	R-CARBON;5.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R336	2001-000008	R-CARBON;15Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R339	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,-	MULTI SYSTEM
R341	2001-001000	R-CARBON;82Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R342	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R343	2001-001031	R-CARBON;91Kohm,5%,1/8W,AA,TP,1.8x3.2mm	HI-FI ONLY
R344	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	F-A/V OPTION
R346	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,-	
R3A01	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,-	
R3A04	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A05	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A06	2001-000325	R-CARBON;120ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A07	2001-000645	R-CARBON;330Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A08	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,-	
R3A09	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A10	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R3A11	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,-	
R3A12	2001-000458	R-CARBON;2.2ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A13	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R3A14	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A16	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R3A17	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,-	
R3A18	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,-	
R3A19	2001-000405	R-CARBON;180ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A21	2001-000904	R-CARBON;620ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A22	2001-000006	R-CARBON;2.4Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A23	2001-000800	R-CARBON;5.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A24	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3A25	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,-	
R3A26	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,-	
R3A27	2001-000947	R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	MONO ONLY
R3A28	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	HI-FI ONLY
R3A28	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,-	MONO ONLY
R3A29	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,-	MONO ONLY
R3A30	2001-000454	R-CARBON;2.2Mohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A31	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	MONO ONLY
R3A32	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	MONO ONLY
R3A33	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	MONO ONLY
R3A35	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.2mm	ULP OPTION
R3A37	2001-000947	R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3A40	2001-000007	R-CARBON;3Kohm,5%,1/8W,AA,TP,1.8x3.2mm	HI-FI ONLY
R3A40	2001-000611	R-CARBON;3.9KOHM,5%,1/4W,AA,TP,-	MONO ONLY
XT301	2801-001397	CRYSTAL-UNIT;4.433619MHZ,HC-49/U-S 15PPM	
XT302	2801-003399	CRYSTAL-UNIT;3.579545MHZ,15PPM	MULTI SYSTEM
AUDIO DUBBING (OPTION)			
C3A11	2301-000392	C-FILM,PEF;15nF,5%,50V,TP,6.5x8.5x3.2mm,	
C3D01	2301-000283	C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5	
C3D02	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C3D03	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3D04	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C3D05	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
FL3D01	AC27-82001C	COIL-BIAS OSC;B02,W(TOKO)VX1850,-	
L3D01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q3D01	0501-000442	TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9	
Q3D02	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q3D03	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
R3D01	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3D02	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3D03	2001-000745	R-CARBON;4.7ohm,5%,1/8W,AA,TP,1.8x3.2mm	
SECAM PARTS (OPTION)			
C3S01	2202-000164	C-CERAMIC,MLC-AXIAL;.18NF,10%,50V,Y5P,TP	
C3S02	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	

Loc.No	Part No	Description ; Specification	Remark
C3S03	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C3S04	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C3S05	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3S06	2202-000791	C-CERAMIC,MLC-AXIAL;150pF,10%,50V,Y5P,TP	
C3S07	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C3S08	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C3S09	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3S11	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3S13	2401-001775	C-AL;470nF,20%,50V,GP,TP,4x7,5	
C3S14	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C3S15	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C3S17	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3S19	2201-000376	C-CERAMIC,DISC;220pF,5%,50V,SL,TP,4x4,5	
C3S20	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C3S21	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C3S22	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C3S23	2201-000854	C-CERAMIC,DISC;51pF,5%,50V,CH,TP,6.5x3,5	
C3S25	2202-000787	C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3	
C3S27	2202-000825	C-CERAMIC,MLC-AXIAL;680pF,10%,50V,Y5P,TP	
D3S02	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC3S01	1204-001437	IC-CHROMA;LA7359,DIP,28P,400MIL,PLASTIC,	
L3S01	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L3S02	2702-000179	INDUCTOR-RADIAL;6.8uH,5%,6x6.4mm	
L3S03	2701-000165	INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm	
L3S04	2701-000195	INDUCTOR-AXIAL;47UH,5%,2.4X3.4MM	
Q3S01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q3S02	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,	FRANCE REGION ONLY
Q3S02	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K	U.K. REGION 2H'D ONLY
Q3S03	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q3S04	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q3S05	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R3S01	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S02	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S03	2001-001015	R-CARBON;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S04	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S05	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S11	2001-000837	R-CARBON;51Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S12	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R3S13	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S14	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,-	
R3S15	2001-000947	R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S16	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R3S17	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S20	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S21	2001-000674	R-CARBON;360ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S22	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R3S23	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R3S24	2001-000356	R-CARBON;150Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R3S26	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R3S27	2001-000319	R-CARBON;120Kohm,5%,1/8W,AA,TP,1.8x3.2m	
TM-BLOCK			
C402	2202-000807	C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V	
C403	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C404	2401-001074	C-AL;330NF,20%,50V,GP,TP,4X5,2.5MM	
C405	2401-003046	C-AL;47uF,20%,50V,WT,TP,6.3x11,2.5	
C407	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	NON-FRANCE REGION ONLY
C410	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C411	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
D401	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
L401	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L402	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
R401	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R402	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R403	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R404	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	

Loc.No	Part No	Description ; Specification	Remark
R405	2001-000044	R-CARBON;1.2Kohm,5%,1/4W,AA,TP,2.4x6.4m	
R406	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-FRANCE REGION ONLY
R407	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,	NON-FRANCE REGION ONLY
R408	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,-	NON-FRANCE REGION ONLY
TM401	**Refer to table below**	TM-BLOCK	

System	Part No.	Specification
B/G (MONO) (SV-520X)	AC40-30072A	TMDG2-103A,PAL-BG,181CH
G/I/K (MONO)	AC40-30072D	TCMK0600PD08A,PAL-BG/I/DK,181CH
G/I/K (HI-FI)	AC40-30072H	TCMK0601PD08A,PAL-BG/I/DK,HI-FI
I	AC40-30072E	TCMI0610PD08A,PAL-I,UHF
SECAM-L,B/G	AC40-30072J	TCPL0601PD08A,SECAM-L,B/G,181CH
RF-MODULATOR	AC40-20100L	RMUP74055VC,VCP,PAL

ZD401	0403-000390	DIODE-ZENER;UZP33B,33V,31.4-34.6V,1W,DO-	
HI-FI PARTS (OPTION)			
C501	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C502	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C503	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C504	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C505	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C506	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C507	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C508	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C509	2301-000423	C-FILM,PEF;3.3NF,5%,100V,TP,7X10X4.5MM,5	
C510	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C511	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C512	2202-000863	C-CERAMIC,MLC-AXIAL;560pF,10%,50V,Y5P,TP	
C513	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C514	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C515	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C516	2301-000423	C-FILM,PEF;3.3NF,5%,100V,TP,7X10X4.5MM,5	
C517	2301-000445	C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm	
C518	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C519	2301-000381	C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m	
C520	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C521	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
C522	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C523	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C524	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C525	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C526	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C527	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C529	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
C530	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
IC501	1204-001422	IC-AUDIO PROCESSOR;LA72634M,QFP,64P,400M	
L502	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
L503	2702-000106	INDUCTOR-RADIAL;100uH,5%,6.2x7.4mm	
R501	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R502	2001-000947	R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R503	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R504	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R505	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R506	2001-000947	R-CARBON;7.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R507	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	AUX OPTION
R508	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	AUX OPTION
R509	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R510	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R511	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,-	
R512	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R514	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R516	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R517	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R518	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R519	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	AUX OPTION

Loc.No	Part No	Description ; Specification	Remark
R520	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	AUX OPTION
R521	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	CANAL OPTION
R522	2001-000977	R-CARBON;8.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	CANAL OPTION
R523	2001-000508	R-CARBON;220Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R524	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R525	2001-000577	R-CARBON;2Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R533	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R540	2001-000766	R-CARBON;43Kohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R570	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R571	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
INPUT-OUTPUT PARTS			
C801	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C802	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C803	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C804	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C805	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C806	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C807	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	CANAL OPTION
C808	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	CANAL OPTION
C809	2401-001919	C-AL;2.2UF,20%,50V,-,TP,4X7MM,5	CANAL OPTION
C810	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C811	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	2 SCART OPTION
C812	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C813	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C814	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C815	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	CANAL OPTION
C816	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C817	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	CANAL OPTION
C818	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	CANAL OPTION
C819	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	CANAL OPTION
C820	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	CANAL OPTION
C821	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	
C822	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	
C823	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	2 SCART OPTION
C826	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	2 SCART OPTION
C827	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	2 SCART OPTION
C828	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C829	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C830	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C831	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	
C832	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C833	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	
C834	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP	2 SCART OPTION
C837	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C838	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C840	2401-001479	C-AL;470uF,20%,10V,GP,-,-,TP	2 SCART OPTION
C841	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP	2 SCART OPTION
D805	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC801	1205-001484	IC-SWITCH;LA7147M,SOP,36PIN,375MIL,PLAST	CANAL OPTION
JC801	3722-001093	JACK-RCA;42P,3.81MM,SN,BLU/BLK,#20-28	2 SCART
JC801	3710-000482	CONNECTOR-SOCKET;21P,-,-,ANGLE,SN	1 SCART
JC802	AC37-20001E	JACK-RCA;DPAE-9606,6P,HIFI,PI3.3	RCA PIN6
JC802	AC37-20001H	JACK-RCA;DPAM-,4P,MONO,PI3.3	RCA PIN4
JC802	AC37-22002E	JACK-PIN;3.5MM,DPAE9634,2P,TR,-	RCA PIN2
L801	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	CANAL OPTION
L802	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	CANAL OPTION
L803	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L804	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L805	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	2 SCART OPTION
L806	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	2 SCART OPTION
L807	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L808	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L809	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L810	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	
L811	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	2 SCART OPTION
L812	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	2 SCART OPTION
L813	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
L814	AC27-92001M	INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-	
Q802	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	CANAL OPTION
Q803	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	16:9 OPTION
Q804	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	CANAL OPTION
R801	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R802	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R803	2001-000116	R-CARBON;820ohm,5%,1/4W,AA,TP,2.4x6.4mm	
R805	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R806	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R807	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R808	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R809	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R810	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R811	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R812	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R813	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R814	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R815	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R816	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R819	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R820	2001-000554	R-CARBON;270ohm,5%,1/8W,AA,TP,1.8x3.2mm	2 SCART OPTION
R821	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R822	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
SW801	3404-000135	SWITCH-TACT;12V,50mA,160+-50gf,7.4x7.1mm	
ZD801	0403-000595	DIODE-ZENER;MTZJ6.2,6.2V,5.78-6.44V,500m	16:9 OPTION
OSD/VPS/PDC PARTS (OPTION)			
C6P01	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C6P02	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C6P03	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C6P04	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,	
C6P05	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,	
C6P06	2301-000458	C-FILM,PEF;56nF,5%,50V,TP,8x12x4.5mm,5mm	
C6P07	2401-002075	C-AL;4.7uF,20%,50V,GP,TP,5x11,5	
C6P08	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.	
C6P10	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P11	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P12	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C6P13	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C6P14	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
IC6P01	AC09-10458N	IC-MCU;LC74775M-9744,30P,MFP,OSD/VPS/PDC	
L6P03	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L6P04	2701-000201	INDUCTOR-AXIAL;5.6UH,5%,2.4X3.4MM	
L6P05	2701-000165	INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm	
Q6P01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P03	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
R6P01	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6P02	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6P03	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,-	
R6P04	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R6P05	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R6P06	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R6P07	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,-	CANAL OPTION
R6P07	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,	NON-CANAL OPTION
R6P08	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,-	
R6P10	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R6P11	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,-	
OSD (WITHOUT VPS/PDC) PARTS (OPTION)			
C6P01	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C6P02	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C6P03	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C6P04	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,	

Loc.No	Part No	Description ; Specification	Remark
C6P05	2202-000216	C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP,	
C6P08	2202-000286	C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1.	
C6P09	2202-000145	C-CERAMIC,MLC-AXIAL;.12NF,10%,50V,Y5P,TP	
C6P10	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P11	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C6P12	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C6P13	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C6P14	2202-000205	C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1.	
IC6P01	AC09-10458R	IC-MCU;LC74783JM-9745,24P,MFP,OSD IC,-	
L6P03	2701-000160	INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM	
L6P04	2701-000201	INDUCTOR-AXIAL;5.6UH,5%,2.4X3.4MM	
L6P05	2701-000165	INDUCTOR-AXIAL;27uH,5%,2.4x3.4mm	
Q6P01	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P02	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
Q6P03	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T	
R6P07	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,-	CANAL OPTION
R6P07	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP	NON-CANAL OPTION
R6P08	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,-	
R6P09	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R6P10	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	CANAL OPTION
R6P11	2001-000005	R-CARBON;390OHM,5%,1/8W,AA,TP,-	
KEY MATRIX PARTS			
CN704	3711-004013	CONNECTOR-HEADER;3WALL,10P,1R,2mm,STRAIG	F-A/V OPTION
D701	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D702	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D703	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D704	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D705	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D707	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D708	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D709	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
L701	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	F-A/V OPTION
L702	2701-000181	INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM	F-A/V OPTION
Q702	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	NON-VFD ONLY
Q703	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	NON-VFD ONLY
Q704	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	NON-VFD ONLY
Q705	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	NON-VFD ONLY
Q706	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	NON-VFD ONLY
R702	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-VFD ONLY
R703	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-VFD ONLY
R704	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-VFD ONLY
R705	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-VFD ONLY
R706	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	NON-VFD ONLY
R727	2001-000008	R-CARBON;15Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R728	2001-000008	R-CARBON;15Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
SW701	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW703	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW708	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW709	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW710	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW711	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW712	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW713	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW714	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW715	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW716	3404-001076	SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP	
SW718	3404-000165	SWITCH-TACT;12V,50mA,160gf+-50gf,6x6mm,S	
SRC (OPTION)			
C6B03	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	
C6B04	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
L6B01	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
Q6B01	0504-000203	TR-DIGITAL;KSR1004,NPN,300mW,47K-47K,TO-	
Q6B02	0504-000142	TR-DIGITAL;KSR2001,PNP,300mW,4.7K-4.7K,T	
Q6B03	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	

Loc.No	Part No	Description ; Specification	Remark
Q6B04	0501-000616	TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L	
R6B01	2001-000384	R-CARBON;160ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6B02	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6B03	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
-	**-**	**ASSY-SUB;A2/NICAM PAL COBRA (OPTION)**	**S.N.A.**
C4N01	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	
C4N02	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N03	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP	
C4N04	2401-000661	C-AL;2.2uF,20%,50V,GP,TP,5x11,5	
C4N05	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C4N06	2301-000383	C-FILM,PEF;10nF,5%,50V,TP,6x7x3.2mm,5mm	
C4N07	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N08	2202-000848	C-CERAMIC,MLC-AXIAL;1.5NF,30%,50V,Y5S,TP	
C4N09	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N10	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N11	2401-002062	C-AL;3.3UF,20%,50V,GP,TP,5X11,2.5	
C4N12	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C4N13	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C4N14	2401-000414	C-AL;10uF,20%,16V,GP,TP,4x7,5	
C4N15	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V	
C4N16	2401-002144	C-AL;47uF,20%,16V,GP,TP,5x11,5	
C4N17	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N18	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP	
C4N19	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C4N21	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N22	2201-002069	C-CERAMIC,DISC;1.5pF,0.25pF,50V,NPO,TP,4	
C4N23	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
C4N24	2401-000598	C-AL;1uF,20%,50V,GP,TP,4x7,5	
CN4N01	3711-003176	CONNECTOR-HEADER;NOWALL,10P,1R,2.5mm,ANG	
D4N01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
D4N02	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
IC4N01	AC14-10001D	IC;MSP3415D,DIP,52P,47*15.6,PLAST	A2/NICAM
IC4N01	1204-001478	IC-AUDIO PROCESSOR;MSP3405D,DIP,52P,551M	A2 ONLY
L4N01	2701-000188	INDUCTOR-AXIAL;4.7UH,5%,2.4X3.4MM	
L4N02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L4N03	2701-000188	INDUCTOR-AXIAL;4.7UH,5%,2.4X3.4MM	
L4N04	3301-000297	CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400,	
R4N01	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R4N02	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N03	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N04	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N05	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R4N06	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
XT4N01	2801-003171	CRYSTAL-UNIT;18.432MHz,20PPM,28-AAM,4PF,	
-	**-**	**ASSY-VFD(AV-LINK);VFD AV-LINK (OPTION)**	**S.N.A.**
C701	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C703	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C706	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C707	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C708	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C709	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C710	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C711	2202-000162	C-CERAMIC,MLC-AXIAL;.015NF,5%,50V,SL,TP,	
C712	2202-000162	C-CERAMIC,MLC-AXIAL;.015NF,5%,50V,SL,TP,	
CN701	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN702	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN705	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN706	AC39-20817T	LEAD CONNECTOR-ASSY;DP,YBNH200-03,YBST20	
DT701	AC07-20051C	VF-DISPLAY;SVV-07SS27,15SEG,20.5X75.0,SV	
JC701	AC37-22002H	JACK-PIN;3.2mm,DPSE-9826,3P,10mm,ARREY	
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD701	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	

Loc.No	Part No	Description ; Specification	Remark
LD702	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
R706	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R708	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R709	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R710	2001-000435	R-CARBON;1Mohm,5%,1/8W,AA,TP,1.8x3.2mm	
R731	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R732	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-,	
XT701	2801-003139	CRYSTAL-UNIT;8MHz,50ppm,28-AAA,22pF,80oh	
ZD701	0403-000509	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
ZD702	0403-001141	DIODE-ZENER;MTZJ24D,24V,23.63-24.85V,500	
-	-	**ASSY-VFD;VFD-ONLY (OPTION)**	**S.N.A.**
C701	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C703	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C704	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C707	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C708	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C709	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C710	2202-000279	C-CERAMIC,MLC-AXIAL;47pF,5%,50V,SL,TP,3.	
C715	2401-002299	C-AL;4.7uF,20%,50V,GP,TP,5x7,5	
C716	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C717	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C730	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C731	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
CN701	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN702	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN704	AC39-20817T	LEAD CONNECTOR-ASSY;DP,YBNH200-03,YBST20	
CN705	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
DT701	AC07-20051C	VF-DISPLAY;SVV-07SS27,15SEG,20.5X75.0,SV	
IC701	1003-001034	IC-VFD;UPD16312,QFP,44P,9.5MIL,-,9.5M	
JC701	AC37-22002H	JACK-PIN;3.2mm,DPSE-9826,3P,10mm,ARREY	
L701	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
L702	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
R707	2001-000864	R-CARBON;56Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R708	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R709	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R710	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R711	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,-	
R712	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,-	
R715	2001-000633	R-CARBON;30Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R731	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R734	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-,	
SW701	3404-000165	SWITCH-TACT;12V,50mA,160gf+-50gf,6x6mm,S	
SW703	3404-000165	SWITCH-TACT;12V,50mA,160gf+-50gf,6x6mm,S	
ZD701	0403-001141	DIODE-ZENER;MTZJ24D,24V,23.63-24.85V,500	
ZD702	0403-000509	DIODE-ZENER;MTZJ5.6B,5.6V,5.45-5.73V,500	
-	-	**ASSY-F/TIMER;LED-MODULE (OPTION)**	**S.N.A.**
C701	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C703	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
CN701	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN702	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
DT701	0703-001058	DISPLAY-LED;GRN/RED,6digit,10seg,57x20x1	
LD701	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	SRC OPTION
LD702	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	SRC OPTION
Q701	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q707	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q708	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q709	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q710	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q711	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
Q712	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	

Loc.No	Part No	Description ; Specification	Remark
Q713	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
Q714	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
Q715	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
Q716	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
R701	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R707	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R708	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R709	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R710	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R711	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R712	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R713	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R714	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R715	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R716	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R717	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R718	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R719	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R720	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R721	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R722	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R723	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R724	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R725	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R726	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,-	
R731	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R732	2001-000598	R-CARBON;3.3ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-,	
-	-	**ASSY-F/TIMER;LED-SINGLE (OPTION)**	**S.N.A.**
C701	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
C702	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C703	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
CN701	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
CN702	3711-001198	CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE	
D706	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
LD701	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD702	0601-001201	LED;ROUND,RED,3mm,635nm	
LD703	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD704	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD705	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD706	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD707	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD708	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD709	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD710	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
LD711	0601-000497	LED;ROUND,GRN,3.1mm,565nm	
Q707	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q708	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q709	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q710	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
Q711	0501-000290	TR-SMALL SIGNAL;KSA643-Y,PNP,500MW,TO-92	
Q712	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T	
R707	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R708	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R709	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R710	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R711	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R712	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R713	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R714	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R715	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R716	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R717	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R718	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R719	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	

Loc.No	Part No	Description ; Specification	Remark
R720	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R721	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R722	2001-000490	R-CARBON;200OHM,5%,1/8W,AA,TP,-	
R723	2001-000780	R-CARBON;470OHM,5%,1/8W,AA,TP,-	
R724	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
R729	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R731	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,-	
RM701	AC59-60060A	MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-,	
-	-	**ASSY-F/AV;F/AV & SRC (OPTION)**	**S.N.A.**
C6B07	2401-003107	C-AL;47uF,20%,16V,GP,TP,5x7,5	SRC OPTION
C6B08	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	SRC OPTION
C730	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
C731	2202-000173	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1	
CN705	3710-001385	CONNECTOR-SOCKET;10P,1R,2mm,ANGLE,SN	
JC701	AC37-22002G	JACK-PIN;3.2mm,DPSE-9813,3P,13mm,ARREY	HI-FI
JC701	AC37-22002J	JACK-PIN;3.2mm,DPSE-9814,2P,13mm,S/W	MONO
L6B02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	SRC OPTION
LD6B02	0601-001204	LED-IR;ROUND,4.9mm,140mW,5V,940nm,-	SRC OPTION
SW706	3404-000240	SWITCH-TACT;15V,20mA,160+-50gf,6x6mm,-	
SW707	3404-000240	SWITCH-TACT;15V,20mA,160+-50gf,6x6mm,-	
-	-	**ASSY-SRC;SRC (OPTION)**	**S.N.A.**
C6B08	2202-000797	C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP,	
C6B07	2401-002165	C-AL;100uF,20%,16V,GP,TP,6.3x7,5	
CN6B01	3708-000395	CONNECTOR-FPC/FC/PIC;8P,1.25MM	
D6B02	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
L6B02	AC27-92001B	COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-	
LD6B02	0601-001204	LED-IR;ROUND,4.9mm,140mW,5V,940nm,-	
LD6B03	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
LD6B04	0601-000494	LED-IR;ROUND,5mm,140mW,5V,940nm,-	
R6B04	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R6B05	2001-000666	R-CARBON;33ohm,5%,1/8W,AA,TP,1.8x3.2mm	
SW714	3404-000240	SWITCH-TACT;15V,20mA,160+-50gf,6x6mm,-	NON-SRC OPTION
SW715	3404-000240	SWITCH-TACT;15V,20mA,160+-50gf,6x6mm,-	NON-SRC OPTION
SW716	3404-000240	SWITCH-TACT;15V,20mA,160+-50gf,6x6mm,-	NON-SRC OPTION
-	-	**ASSY-SHUTTLE; (OPTION)**	**S.N.A.**
CN6B01	3708-001164	CONNECTOR-FPC/FC/PIC;5P,1.25MM,ANGLE,SN	
D6B01	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,	
SH6S1	2101-000101	VR-ROTARY;100Kohm,20%,1/10W,SIDE	

Loc.No	Part No	Description ; Specification	Remark
-		**Refer to table below REMOCON-ASSY**	

Region	Country	Models	Part No.	Universal Remote
Europe	France	SV-627F	AC59-10419J	YES
		SV-623F	AC59-10425G	NO
		SV-620F	AC59-10419N	NO
		SV-425F	AC59-10425C	YES
		SV-423F	AC59-10419P	NO
		SV-420F	AC59-10419N	NO
		SV-223F	AC59-10419P	NO
		SV-220F	AC59-10419N	NO
	U.K	SV-627B	AC59-10425E	YES
		SV-625B	AC59-10425K	YES
		SV-623B	AC59-10425B	NO
		SV-620B	AC59-10419Y	NO
		SV-225B	AC59-10419M	NO
		SV-223B	AC59-10419L	NO
		SV-220B	AC59-10425H	NO
		SV-120W	AC59-10420A	NO
	Germany	SV-627X	AC59-10419F	YES
		SV-623X	AC59-10419G	NO
		SV-425X	AC59-10419G	NO
		SV-225X	AC59-10419X	NO
		SV-223X	AC59-10419K	NO
		SV-6233X	AC59-10419K	NO
		SV-2233X	AC59-10419K	NO
		SV-120W	AC59-10420A	NO
	Spain	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-623X	AC59-10425J	YES
		SV-621X	AC59-10425A	YES
		SV-520X	AC59-10419G	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-221X	AC59-10419R	NO
		SV-120W	AC59-10420A	NO
	Italy	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-520X	AC59-10419G	NO
		SV-425X	AC59-10419G	NO
		SV-4215X	AC59-10419R	NO
		SV-4213X	AC59-10419R	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-2215X	AC59-10419R	NO
		SV-2213X	AC59-10419R	NO
		SV-221X	AC59-10419R	NO
	Portugal	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-520X	AC59-10419G	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-221X	AC59-10419R	NO
	Denmark	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-2253X	AC59-10419G	NO
	Sweden/Finland	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-2253X	AC59-10419G	NO
	Norway	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO

Loc.No	Part No	Description ; Specification	Remark

<Continued>

Region	Country	Models	Part No.	Universal Remote
Europe	Norway	SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-2253X	AC59-10419G	NO
	Netherlands	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-2253X	AC59-10419G	NO
	Belgium	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-2253X	AC59-10419G	NO
	Switzerland	SV-627F	AC59-10419F	MUL
		SV-425F	AC59-10425F	MUL
		SV-220F	AC59-10419R	NO
	Austria	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-425X	AC59-10419G	NO
		SV-225X	AC59-10419G	NO
	Greece	SV-625X	AC59-10419S	YES
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-220X	AC59-10419Y	NO
Middle Europe	Croatia	SV-625X	AC59-10419S	YES
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
		SV-120W	AC59-10420A	NO
	Slovenia	SV-625X	AC59-10419S	YES
		SV-425X	AC59-10419G	NO
		SV-421X	AC59-10419R	NO
		SV-225X	AC59-10419G	NO
		SV-220X	AC59-10419Y	NO
	Hungary	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-425G	AC59-10425J	YES
		SV-420G	AC59-10419Y	NO
		SV-225G	AC59-10419G	NO
		SV-220G	AC59-10419Y	NO
		SV-4253G	AC59-10425J	YES
		SV-4203G	AC59-10419Y	NO
		SV-2203G	AC59-10419Y	NO
	Romania	SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425G	AC59-10425J	YES
		SV-420G	AC59-10419Y	NO
		SV-225G	AC59-10419G	NO
		SV-220G	AC59-10419Y	NO
	Czecho	SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425G	AC59-10425J	YES
		SV-420G	AC59-10419Y	NO
		SV-225G	AC59-10419G	NO
		SV-220G	AC59-10419Y	NO
	Poland	SV-627X	AC59-10419S	YES
		SV-625X	AC59-10419S	YES
		SV-621X	AC59-10419R	NO
		SV-425G	AC59-10425J	YES
		SV-420G	AC59-10419Y	NO
		SV-225G	AC59-10419G	NO
		SV-220G	AC59-10419Y	NO
		SV-4253G	AC59-10425J	YES
		SV-4203G	AC59-10419Y	NO
		SV-2203G	AC59-10419Y	NO

Loc.No	Part No	Description ; Specification	Remark

<Continued>

Region	Country	Models	Part No.	Universal Remote
Africa	Algeciras	SV-C620K	AC59-10425M	YES
		SV-C80K	AC59-10425A	YES
		SV-C35K	AC59-10419R	NO
		SV-C30K	AC59-10419R	NO
		SV-C10K	AC59-10420A	NO
	Mauritania	SV-C35K	AC59-10419R	NO
	Morocco	SV-C35K	AC59-10419R	NO
	Algeria	SV-C35K	AC59-10419R	NO
	South Africa	SV-620I	AC59-10425D	YES
		SV-C35K	AC59-10419R	NO
C.I.S.	C.I.S.	SVR-629	AC59-00010C	YES
		SVR-623	AC59-10425D	YES
Oceania	Australia	SV-627B	AC59-10340P	YES
		SV-620B	AC59-10419Q	YES
	Newzealand	SV-620X	AC59-10419Q	YES
Asia	U.A.E.	SV-620G	AC59-10419U	YES
	Iran	SV-1000S	AC59-10425D	YES
	Saudi Arabia	SV-620G	AC59-10419U	YES
	Malaysia	SV-C35K	AC59-10419R	NO

5. Schematic Diagrams

◆ Block Identification of Main PCB - 5-2

5-1 S.M.P.S. (230 Voltage) - 5-3

5-2 S.M.P.S. (Free Voltage) - 5-4

5-3 Power Drive - 5-5

5-4 System Control/Servo - 5-6

5-5 Audio/Video - 5-7

5-6 Hi-Fi - 5-8

5-7 TM-Block - 5-9

5-8 SECAM - 5-10

5-9 A2/NICAM - 5-11

5-10 Input-Output - 5-12

5-11 OSD/VPS/PDC - 5-13

5-12 OSD (Without VPS/PDC) - 5-14

5-13 Function-Timer (VFD/AV-Link) - 5-15

5-14 Function-Timer (LED) - 5-16

5-15 F-A/V Jack/SRC/Shuttle - 5-17

5-16 Remote-Control (Multi-TV) - 5-18

5-17 Remote-Control (VCR Only) - 5-19

Note

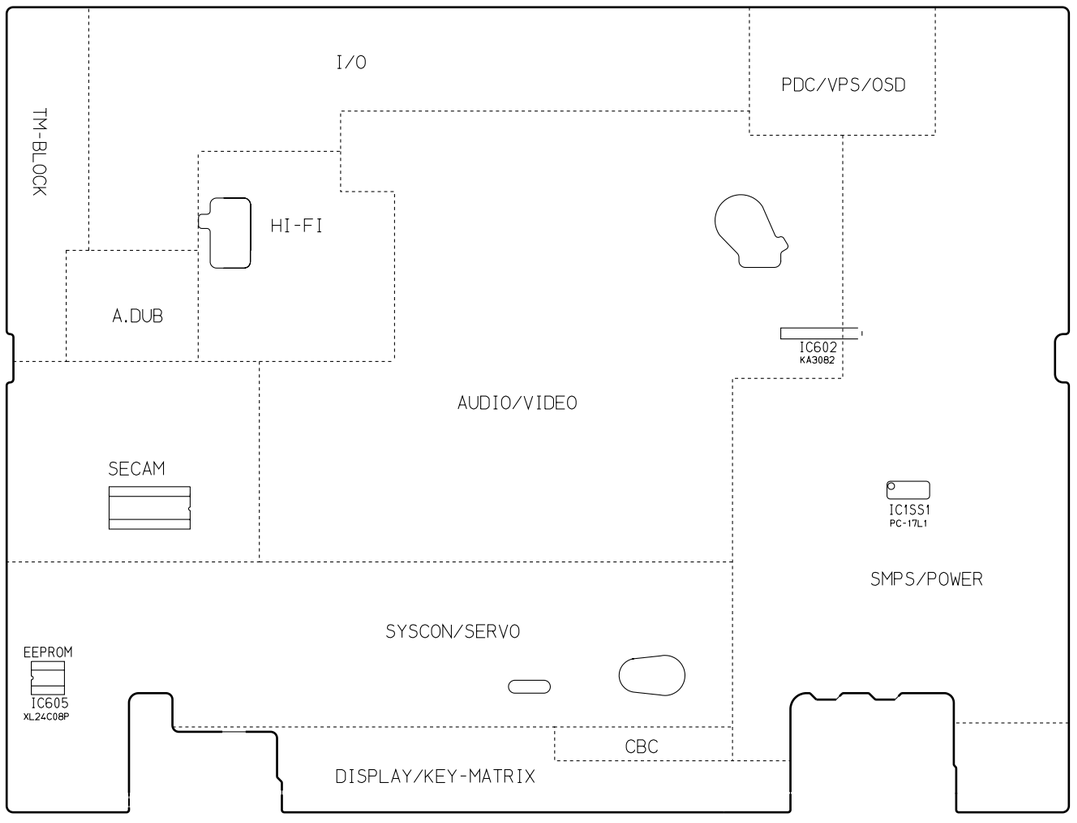
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

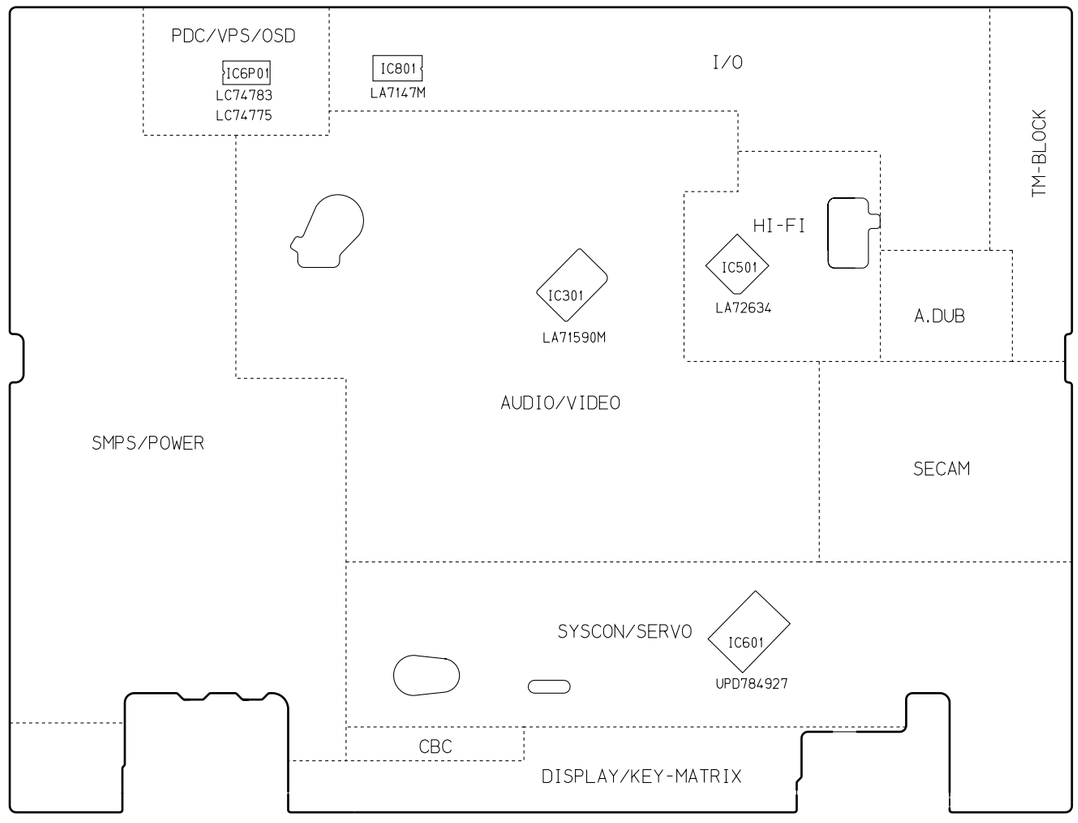
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components.
Use only the same type.

◆ Block Identification of Main PCB

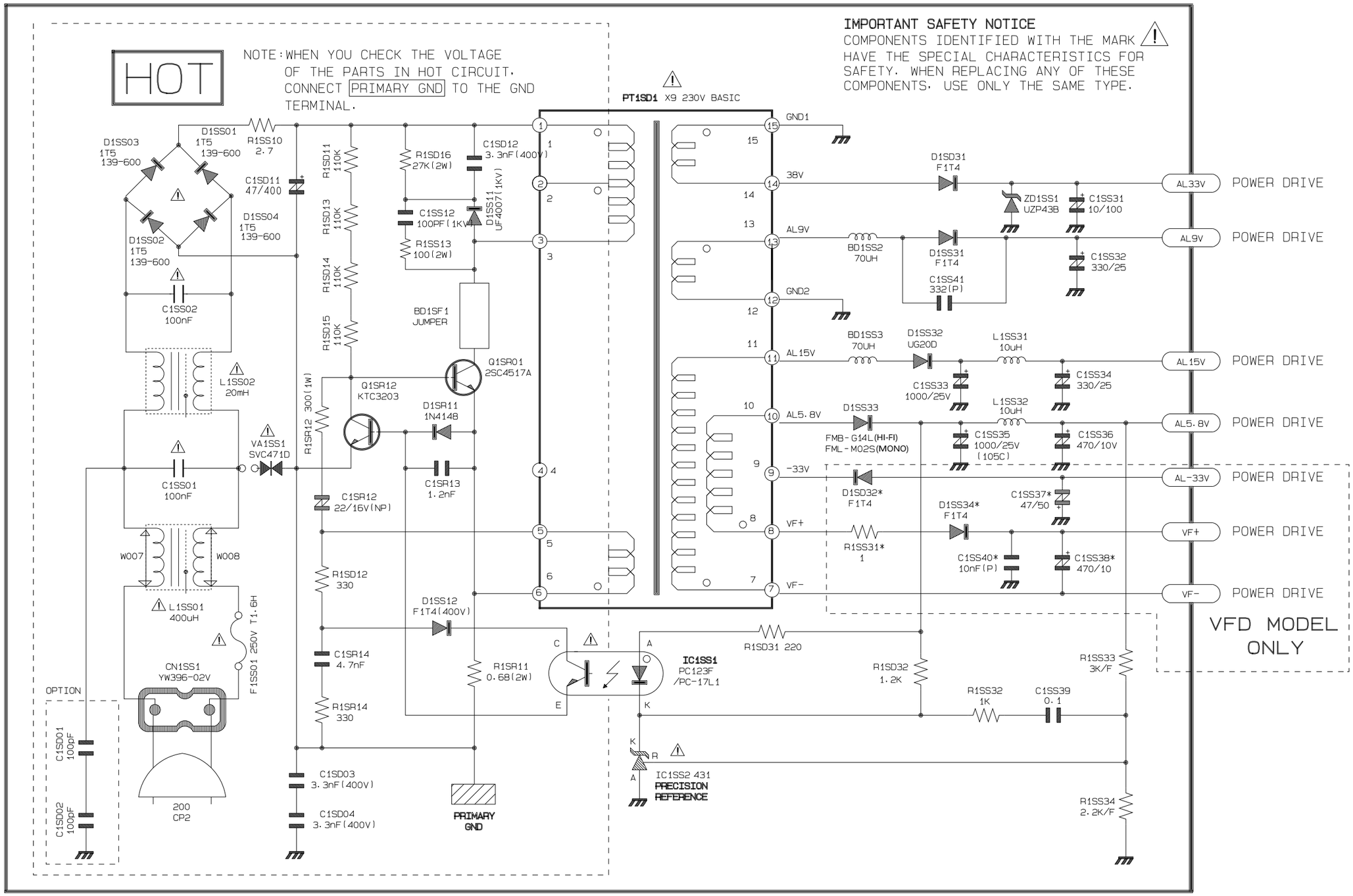


Component Side

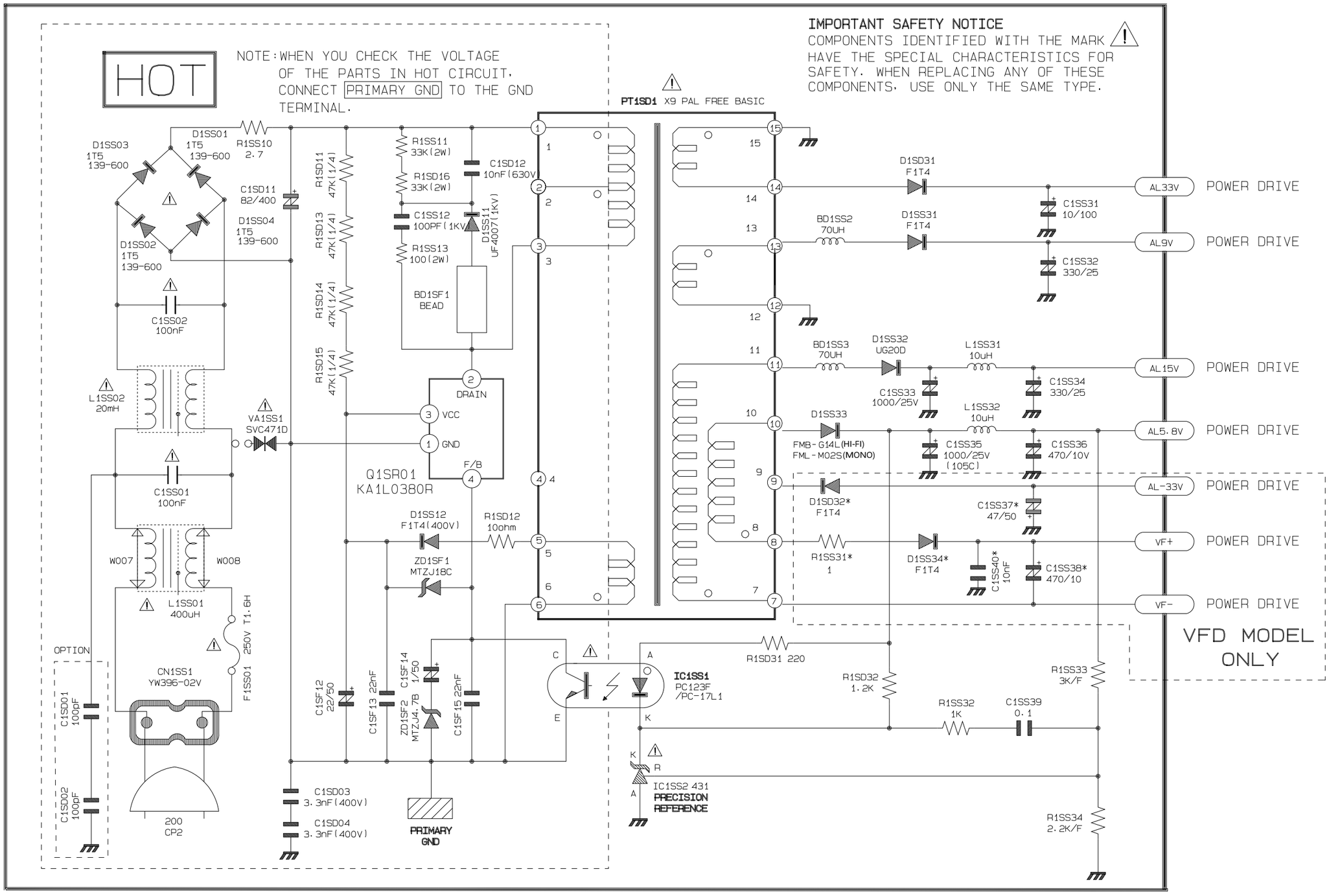


Conductor Side

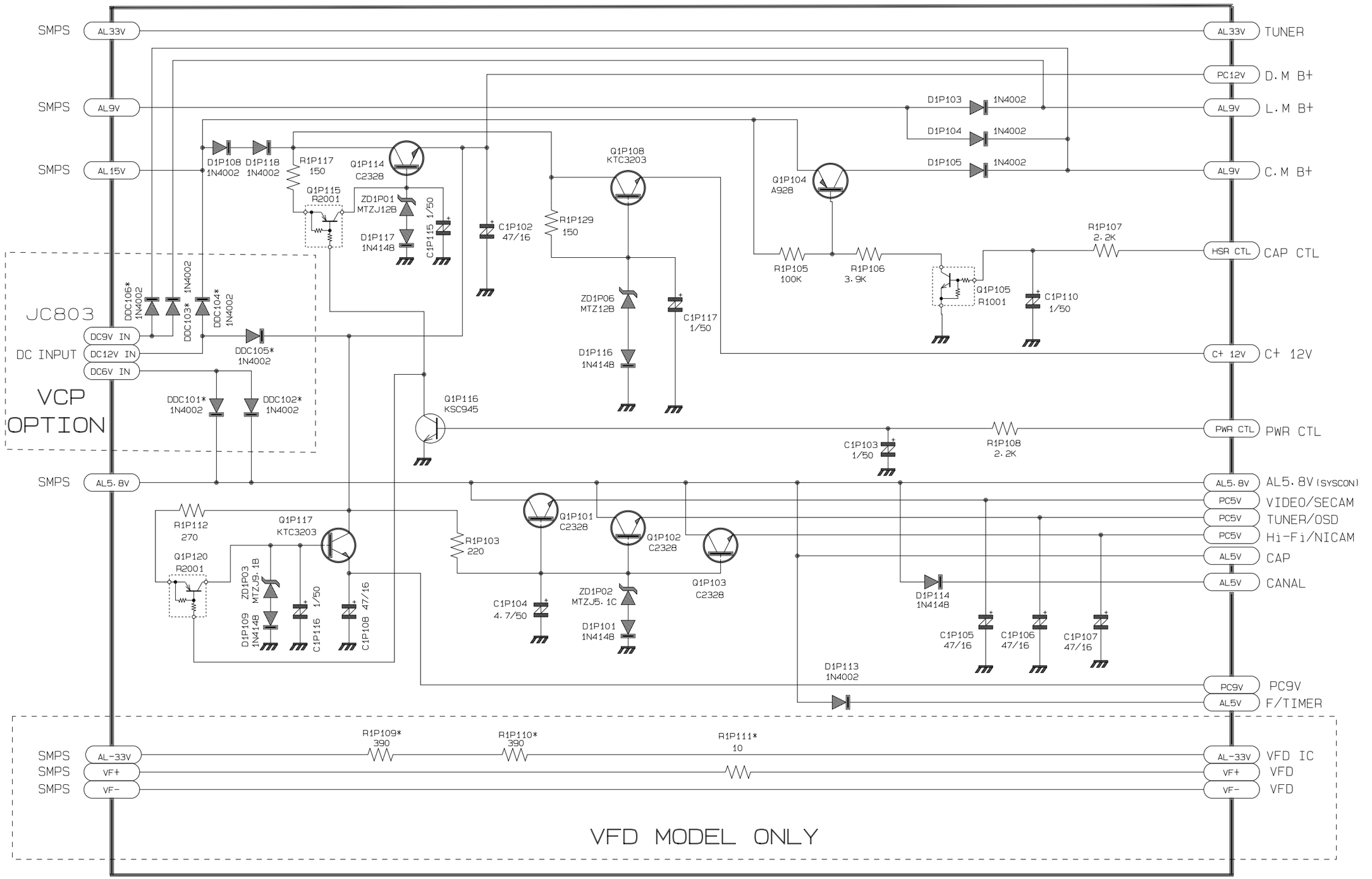
5-1 S.M.P.S. (230 Voltage)



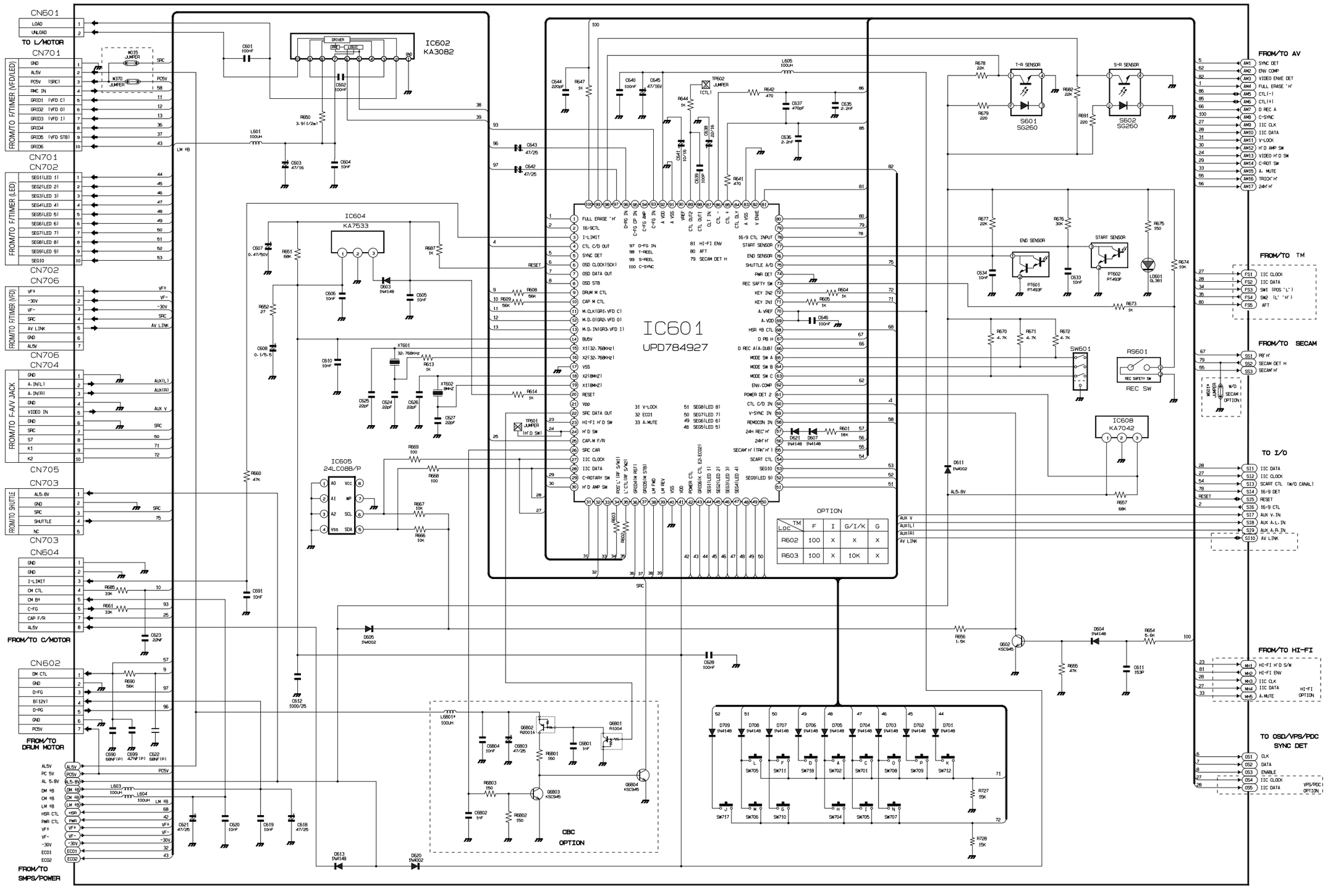
5-2 S.M.P.S. (Free Voltage)



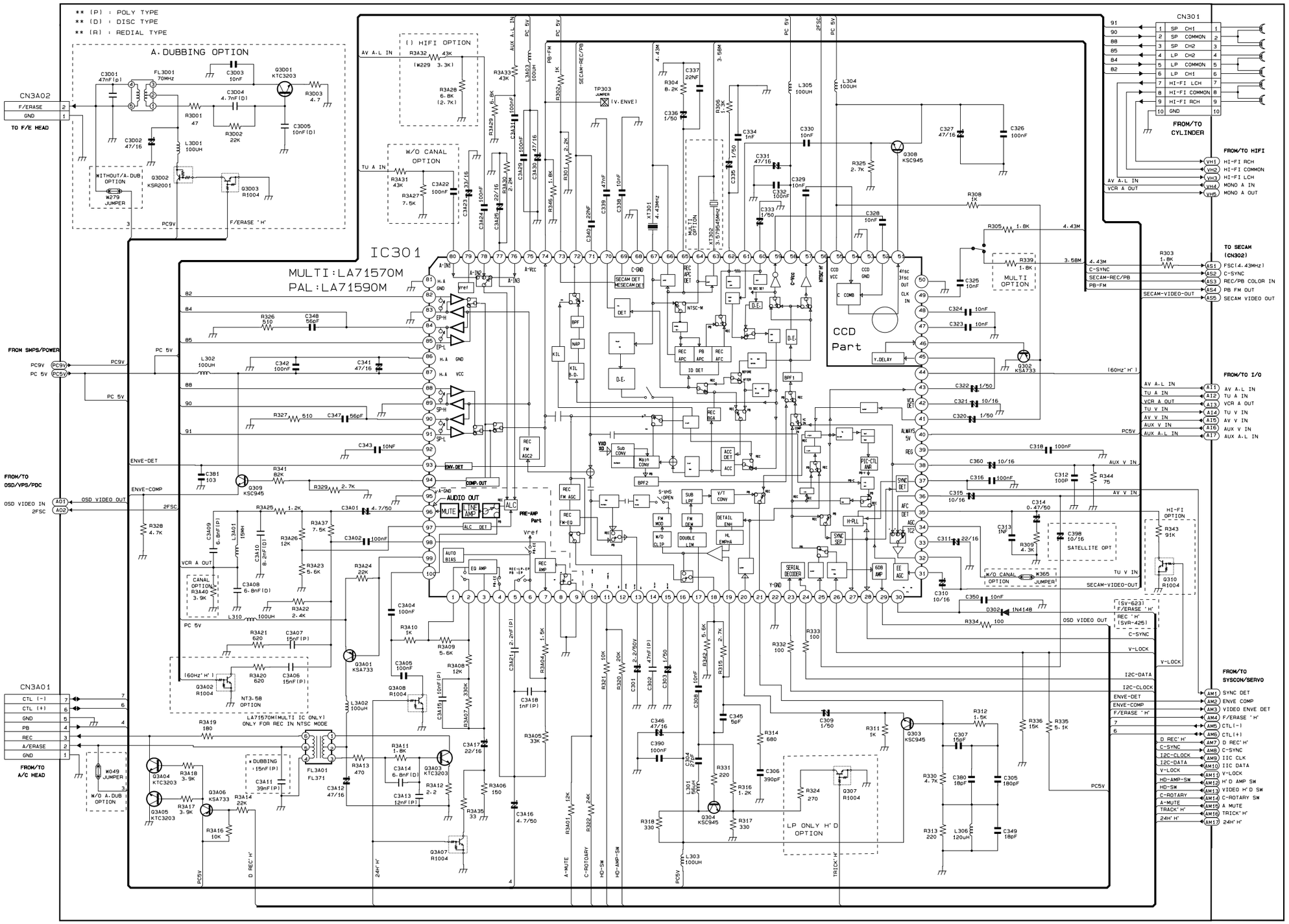
5-3 Power Drive



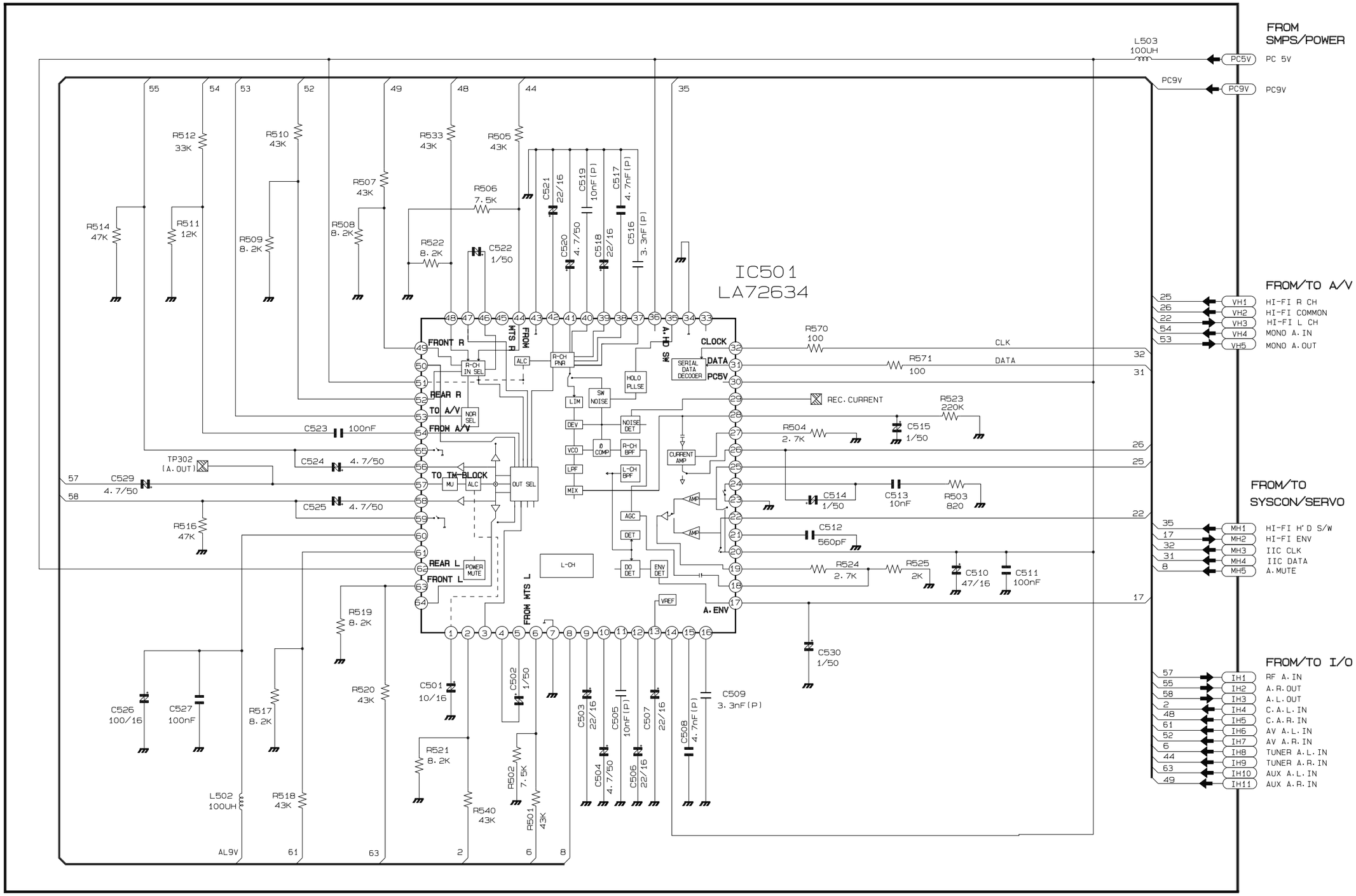
5-4 System Control/Servo



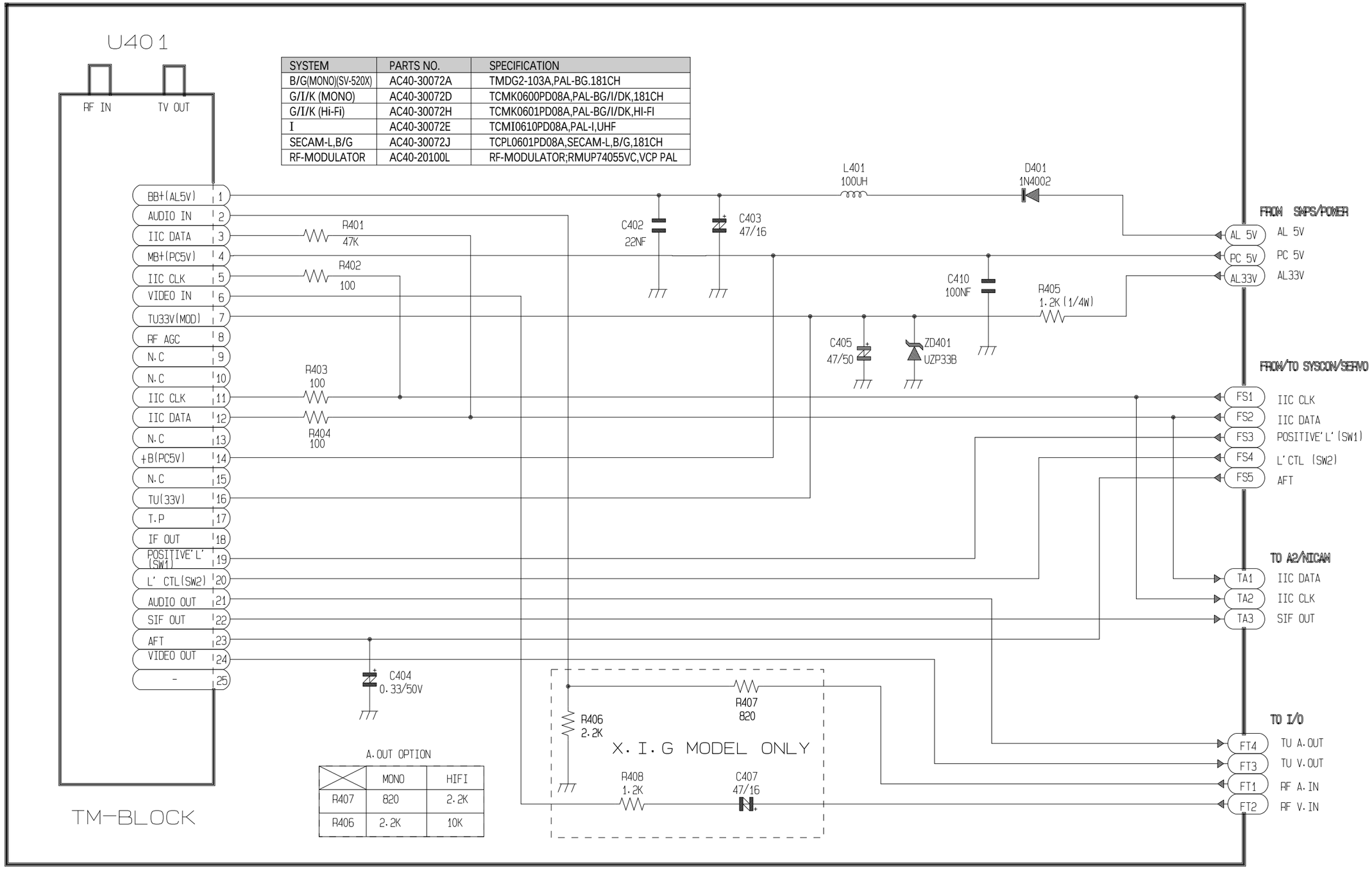
5-5 Audio/Video



5-6 Hi-Fi

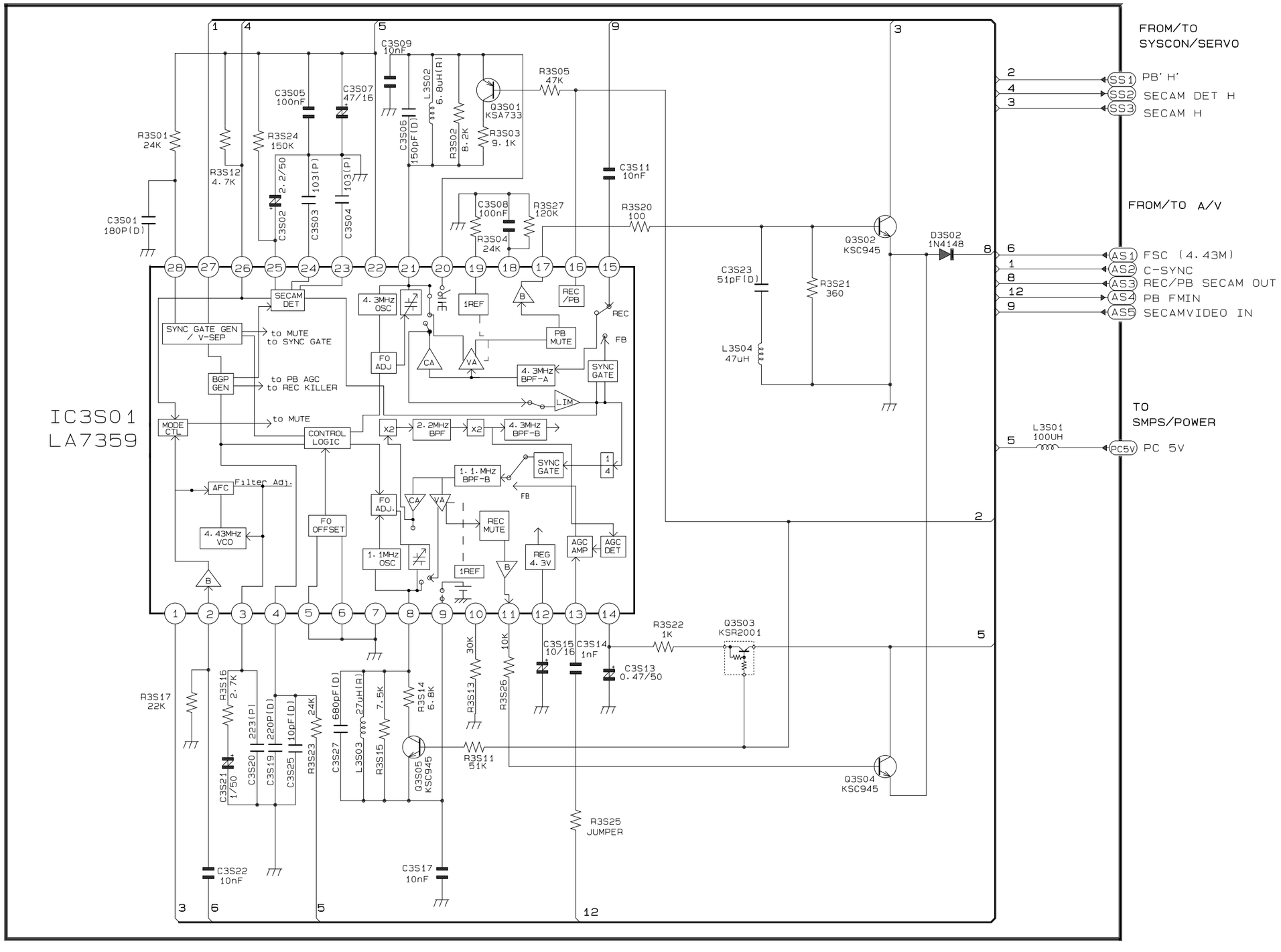

FROM SMPS/POWER
L503 100UH
PC5V
PC 5V
PC9V
PC9V
FROM/TO A/V
25 VH1 HI-FI R CH
26 VH2 HI-FI COMMON
22 VH3 HI-FI L CH
54 VH4 MONO A.IN
53 VH5 MONO A.OUT
FROM/TO SYSCON/SERVO
35 MH1 HI-FI H'D S/W
17 MH2 HI-FI ENV
32 MH3 IIC CLK
31 MH4 IIC DATA
8 MH5 A.MUTE
FROM/TO I/O
57 IH1 RF A.IN
55 IH2 A.R.OUT
58 IH3 A.L.OUT
2 IH4 C.A.L.IN
48 IH5 C.A.R.IN
61 IH6 AV A.L.IN
52 IH7 AV A.R.IN
6 IH8 TUNER A.L.IN
44 IH9 TUNER A.R.IN
63 IH10 AUX A.L.IN
49 IH11 AUX A.R.IN
IC501
LA72634
FRONT R
REAR R
TO A/V
FROM A/V
REAR L
FRONT L
TO TM BLOCK
MTS R
FROM MTS L
A.ENV
CLOCK
DATA
PC5V
SERIAL DATA DECODER
R-CH IN SEL
ALC
R-CH PNR
HOLO PLLSE
SW NOISE
LIM
DEV
VCO
LPF
MIX
Ø COMP
R-CH BPF
L-CH BPF
NOISE DET
CURRENT AMP
AGC
DET
DO DET
ENV DET
VREF
L-CH
NOR SEL
MU
ALC
OUT SEL
POWER MUTE
TP302 (A.OUT)
R570 100
R571 100
CLK
DATA
REC.CURRENT
R523 220K
R504 2.7K
C515 1/50
C514 1/50
C513 10nF
R503 820
C512 560pF
R524 2.7K
R525 2K
C510 47/16
C511 100nF
C530 1/50
R505 43K
R533 43K
R506 7.5K
R507 43K
R508 8.2K
R509 8.2K
R510 43K
R511 12K
R512 33K
R514 47K
R522 8.2K
C521 22/16
C519 10nF(P)
C517 4.7nF(P)
C520 4.7/50
C518 22/16
C516 3.3nF(P)
C522 1/50
C523 100nF
C524 4.7/50
C525 4.7/50
C529 4.7/50
R516 47K
R519 8.2K
R520 43K
R521 8.2K
R540 43K
R502 7.5K
R501 43K
C501 10/16
C502 1/50
C503 22/16
C504 4.7/50
C505 10nF(P)
C506 22/16
C507 22/16
C508 4.7nF(P)
C509 3.3nF(P)
C526 100/16
C527 100nF
R517 8.2K
L502 100UH
R518 43K
AL9V
61
63
2
6
8

5-7 TM-Block

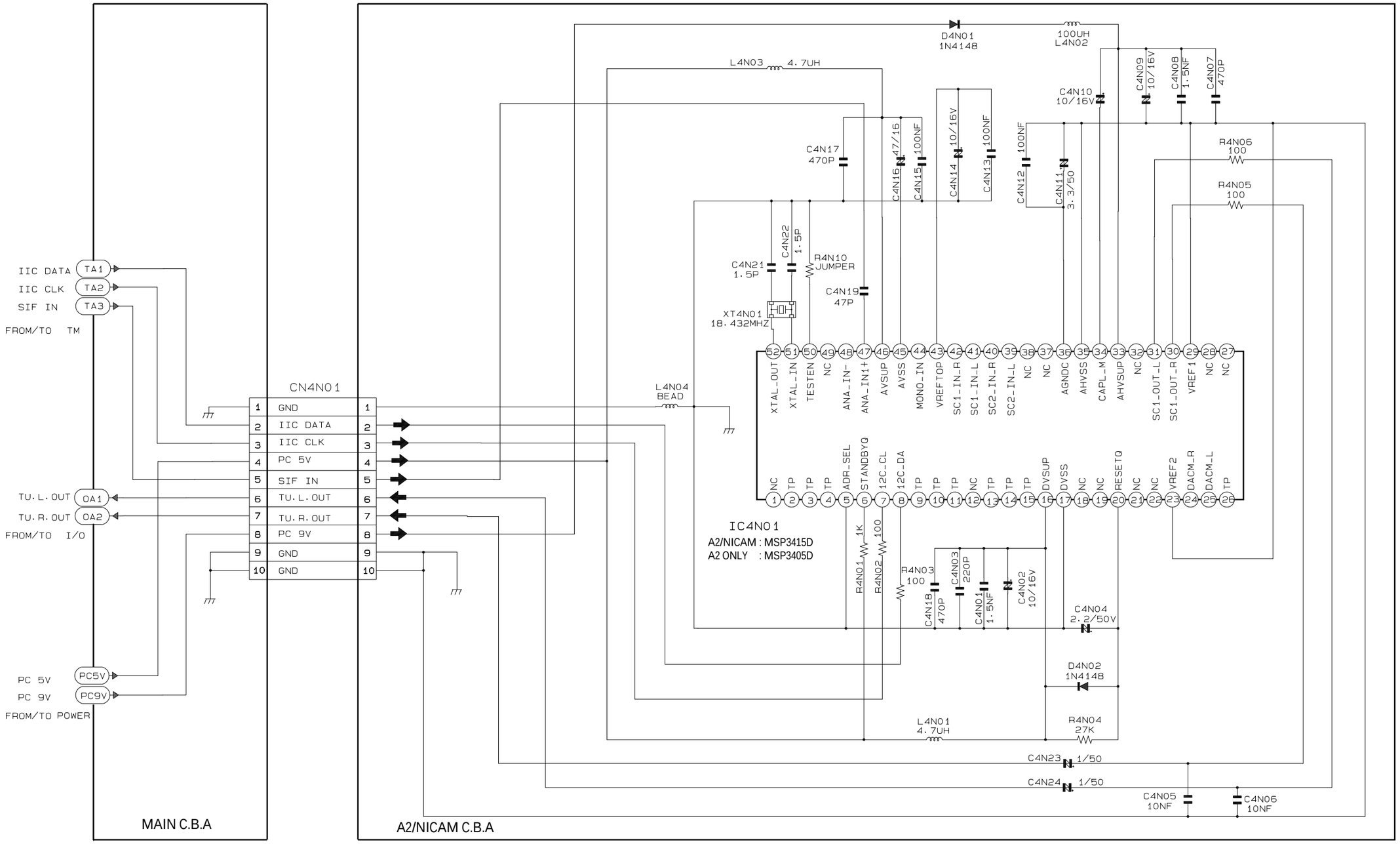


SYSTEM	PARTS NO.	SPECIFICATION
B/G(MONO)(SV-520X)	AC40-30072A	TMDG2-103A,PAL-BG.181CH
G/I/K (MONO)	AC40-30072D	TCMK0600PD08A,PAL-BG/I/DK,181CH
G/I/K (Hi-Fi)	AC40-30072H	TCMK0601PD08A,PAL-BG/I/DK,HI-FI
I	AC40-30072E	TCMI0610PD08A,PAL-I,UHF
SECAM-L,B/G	AC40-30072J	TCPL0601PD08A,SECAM-L,B/G,181CH
RF-MODULATOR	AC40-20100L	RF-MODULATOR;RMUP74055VC,VCP PAL

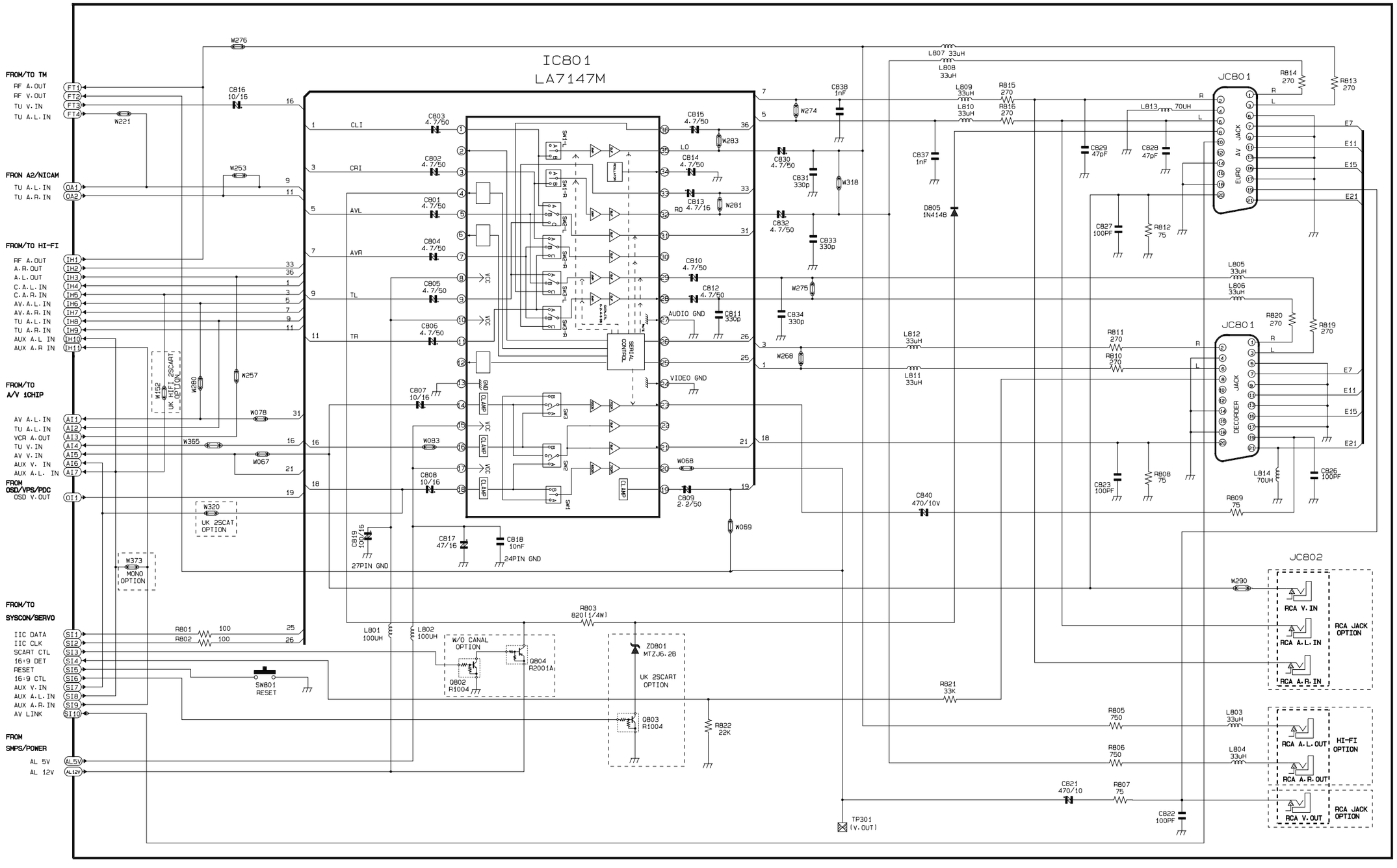
5-8 SECAM


IC3S01
LA7359
FROM/TO
SYSCON/SERVO
PB' H'
SECAM DET H
SECAM H
FROM/TO A/V
FSC (4.43M)
C-SYNC
REC/PB SECAM OUT
PB FMIN
SECAMVIDEO IN
TO
SMPS/POWER
PC 5V
SECAM DET
SYNC GATE GEN / V-SEP
to MUTE
to SYNC GATE
BGP GEN
to PB AGC
to REC KILLER
MODE CTL
CONTROL LOGIC
AFC
Filter Adj.
4.43MHz VCO
4.3MHz OSC
1REF
REC /PB
REC
PB MUTE
FB
FO ADJ
CA
VA
4.3MHz BPF-A
SYNC GATE
LIM
X2
2.2MHz BPF
4.3MHz BPF-B
1.1MHz BPF-B
FO OFFSET
1.1MHz OSC
REC MUTE
REG 4.3V
AGC AMP
AGC DET
C3S01 180P(D)
R3S01 24K
R3S12 4.7K
C3S05 100nF
C3S07 47/16
R3S24 150K
C3S02 2.2/50
C3S03 103(P)
C3S04 103(P)
C3S09 10nF
C3S06 150pF(D)
L3S02 6.8uH(R)
R3S02 8.2K
R3S03 9.1K
Q3S01 KSA733
R3S05 47K
C3S11 10nF
C3S08 100nF
R3S27 120K
R3S04 24K
R3S20 100
C3S23 51pF(D)
R3S21 360
L3S04 47uH
Q3S02 KSC945
D3S02 1N4148
L3S01 100UH
R3S17 22K
R3S16 2.7K
C3S21 1/50
C3S20 223(P)
C3S19 220P(D)
C3S25 10pF(D)
R3S23 24K
C3S27 680pF(D)
L3S03 27uH(R)
R3S15 7.5K
R3S14 6.8K
Q3S05 KSC945
R3S13 30K
R3S26 10K
R3S11 51K
C3S22 10nF
C3S17 10nF
R3S25 JUMPER
C3S15 10/16
C3S14 1nF
C3S13 0.47/50
R3S22 1K
Q3S03 KSR2001
Q3S04 KSC945

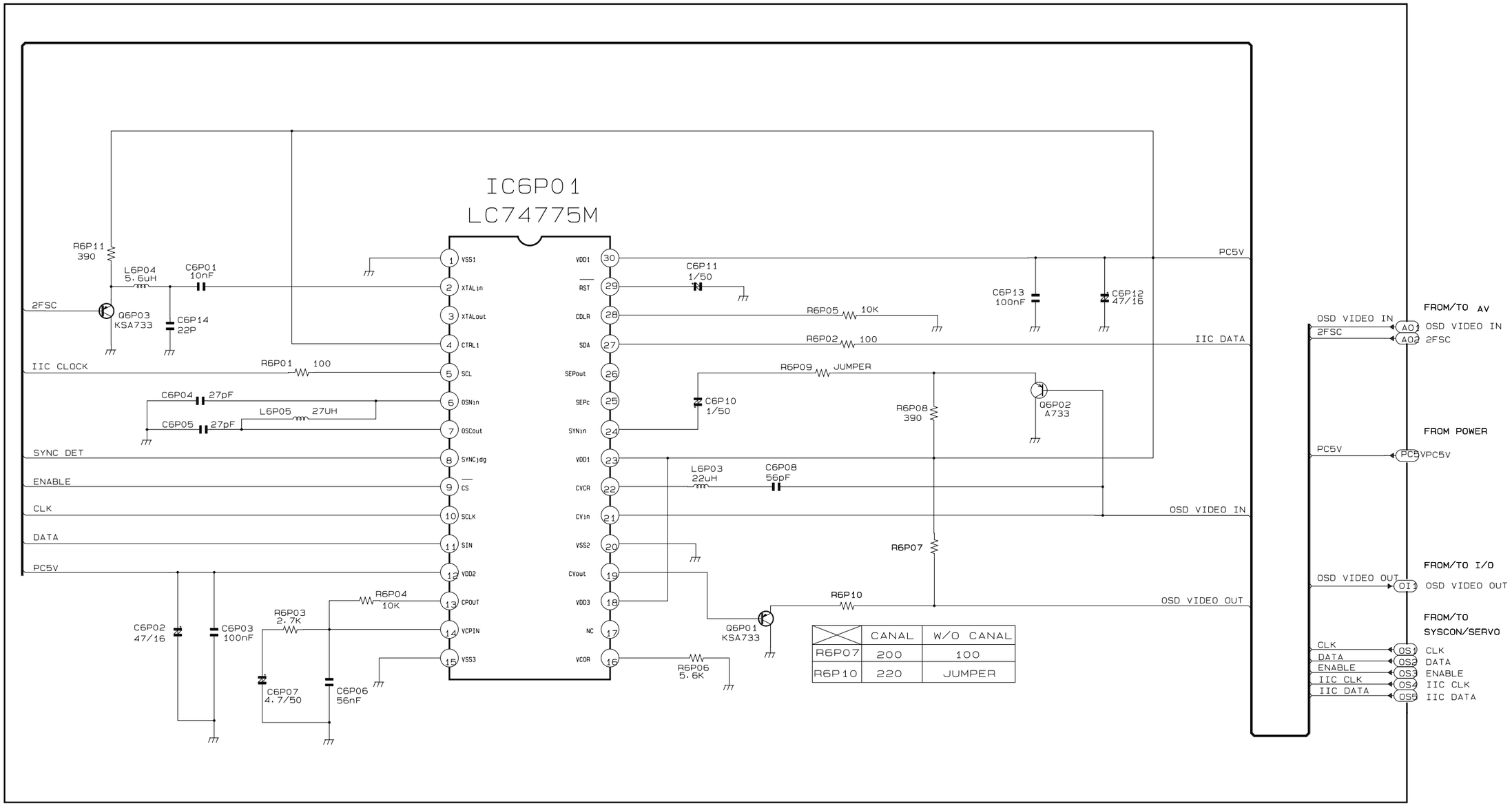
5-9 A2/NICAM


IIC DATA
IIC CLK
SIF IN
FROM/TO TM
TA1
TA2
TA3
TU.L.OUT
TU.R.OUT
FROM/TO I/O
OA1
OA2
PC 5V
PC 9V
FROM/TO POWER
PC5V
PC9V
CN4N01
1 GND
2 IIC DATA
3 IIC CLK
4 PC 5V
5 SIF IN
6 TU.L.OUT
7 TU.R.OUT
8 PC 9V
9 GND
10 GND
MAIN C.B.A
A2/NICAM C.B.A
D4N01 1N4148
100UH L4N02
L4N03 4.7UH
L4N04 BEAD
C4N17 470P
C4N16 47/16
C4N15 100NF
C4N14 10/16V
C4N13 100NF
C4N12 100NF
C4N11 3.3/50
C4N10 10/16V
C4N09 10/16V
C4N08 1.5NF
C4N07 470P
C4N22 1.5P
C4N21 1.5P
R4N10 JUMPER
C4N19 47P
XT4N01 18.432MHZ
R4N06 100
R4N05 100
IC4N01
A2/NICAM : MSP3415D
A2 ONLY : MSP3405D
XTAL_OUT XTAL_IN TESTEN NC ANA_IN- ANA_IN1+ AVSUP AVSS MONO_IN VREFTOP SC1_IN_R SC1_IN_L SC2_IN_R SC2_IN_L NC NC AGNDC AHVSS CAPL_M AHVSUP NC SC1_OUT_L SC1_OUT_R VREF1 NC NC
NC TP TP TP ADR_SEL STANDBYQ I2C_CL I2C_DA TP TP TP NC TP TP TP DVSUP DVSS NC NC RESETQ NC NC VREF2 DACM_R DACM_L TP
R4N01 1K
R4N02 100
R4N03 100
C4N18 470P
C4N03 220P
C4N01 1.5NF
C4N02 10/16V
C4N04 2.2/50V
D4N02 1N4148
L4N01 4.7UH
R4N04 27K
C4N23 1/50
C4N24 1/50
C4N05 10NF
C4N06 10NF

5-10 Input-Output

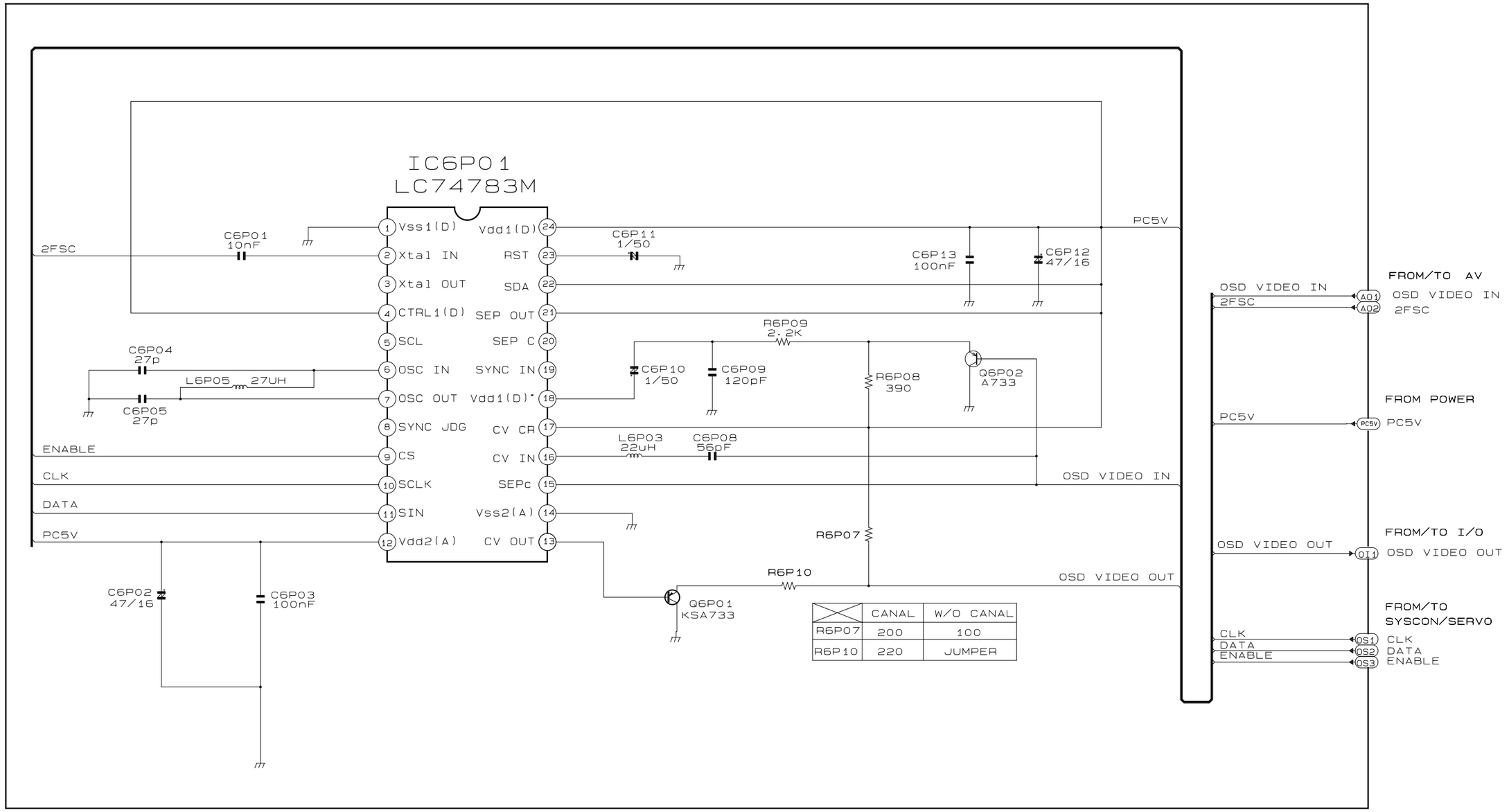


5-11 OSD/VPS/PDC

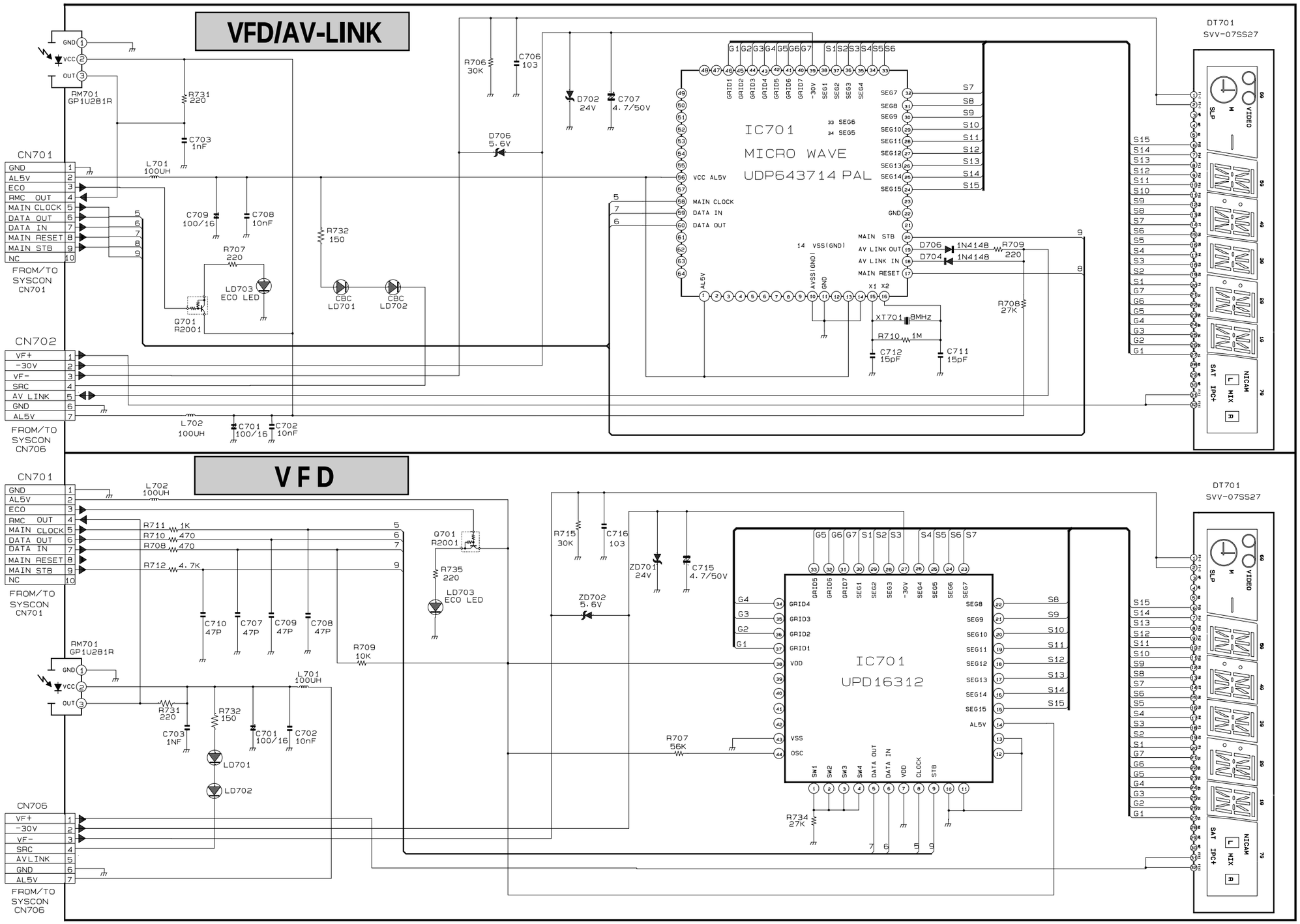


	CANAL	W/O CANAL
R6P07	200	100
R6P10	220	JUMPER

5-12 OSD (Without VPS/PDC)

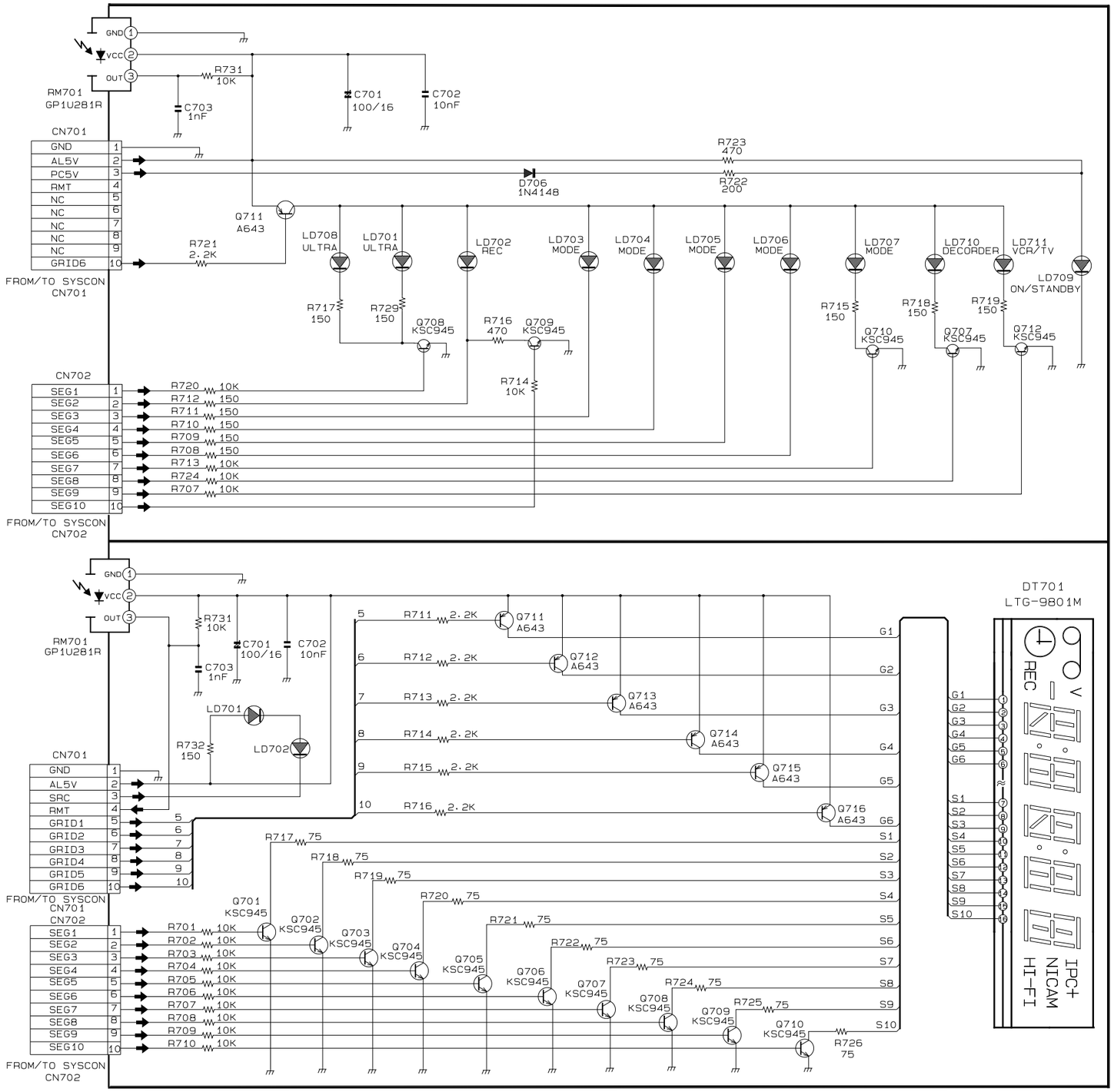


5-13 Function-Timer (VFD/AV-Link)



5-14 Function-Timer (LED)

LED - SINGLE

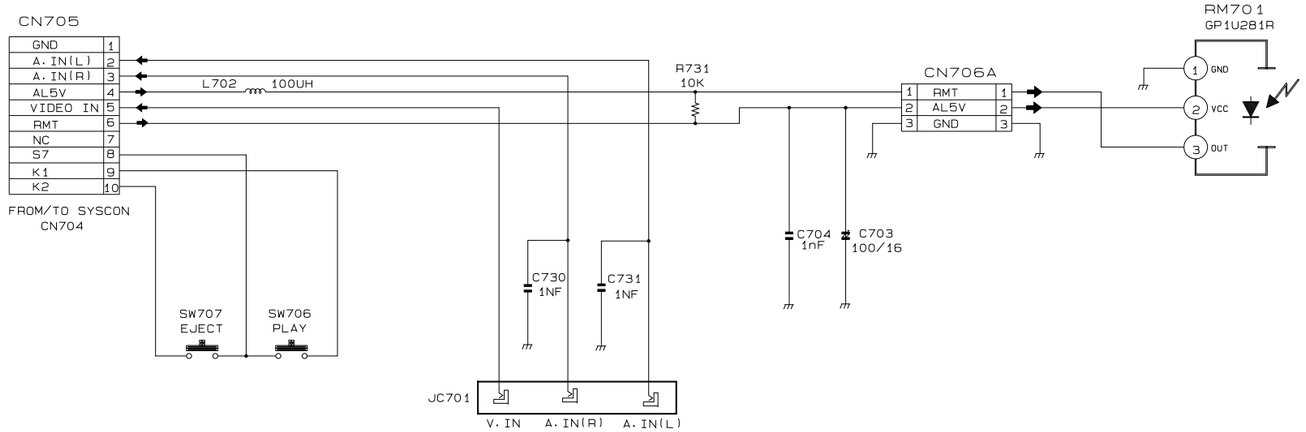


LED - MODULE

5-15 F-A/V Jack/SRC/Shuttle

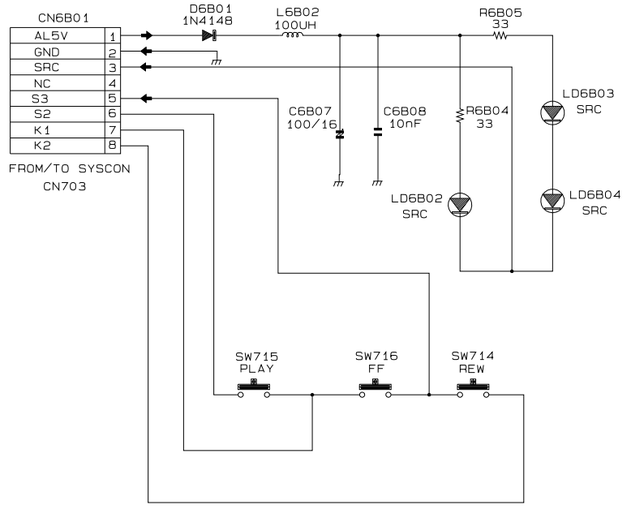
F-A/V JACK

APPLICATION MODELS ; SV-627B/627X/620I/C620K/620G/600G/SVR-629



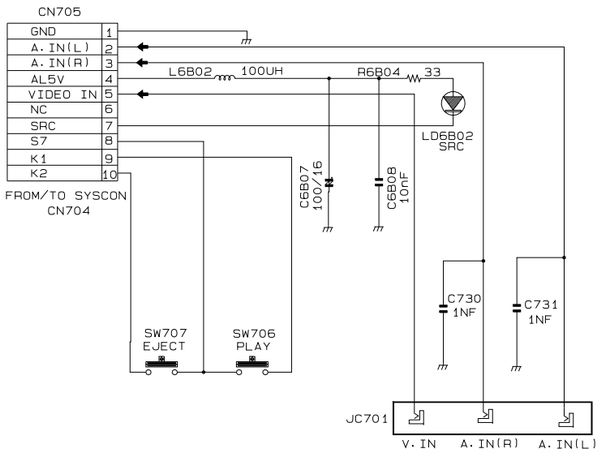
SRC

APPLICATION MODELS ; SV-627B/627X

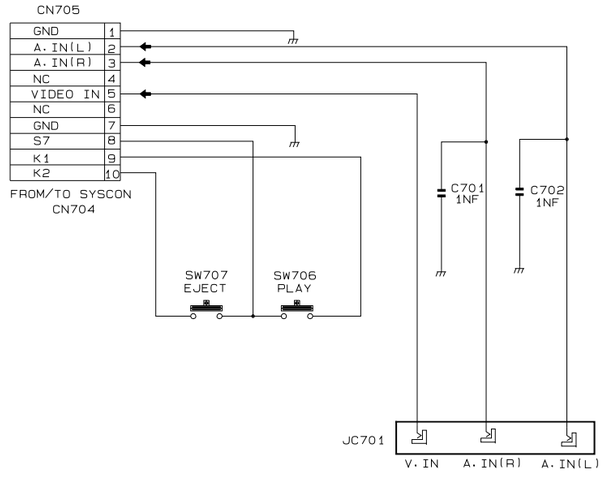


F-A/V JACK & SRC

APPLICATION MODELS ; SV-627F/425F/225B

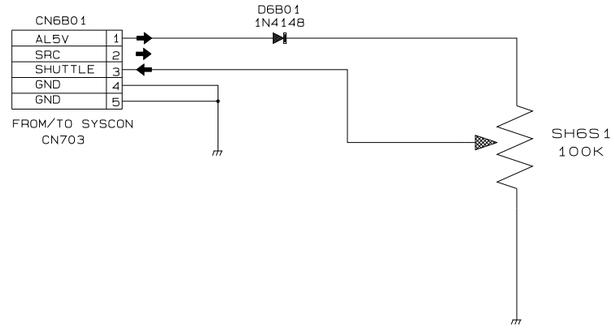


F-AV JACK

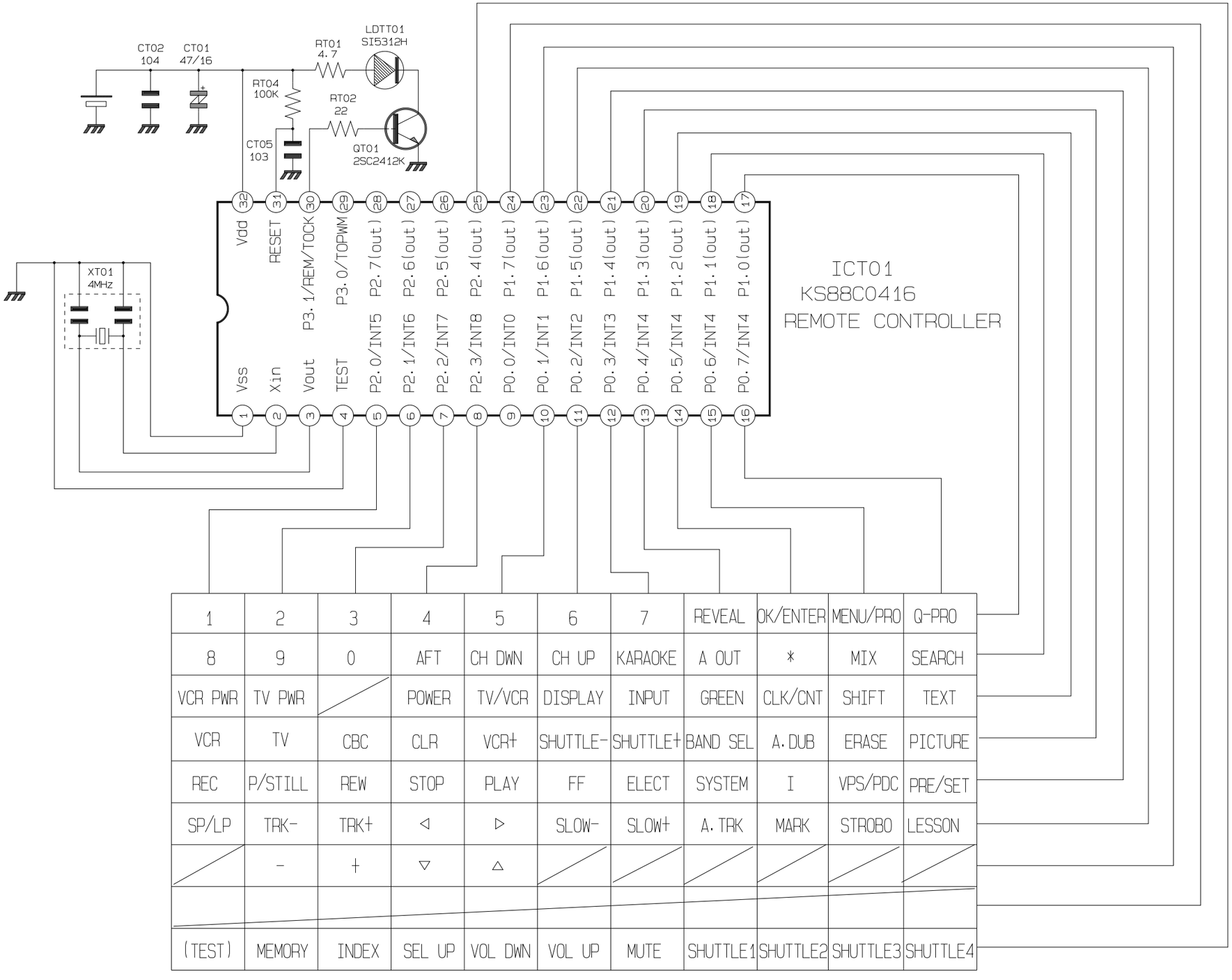


SHUTTLE

APPLICATION MODELS ; SVR-623/SV-C80K/C30K

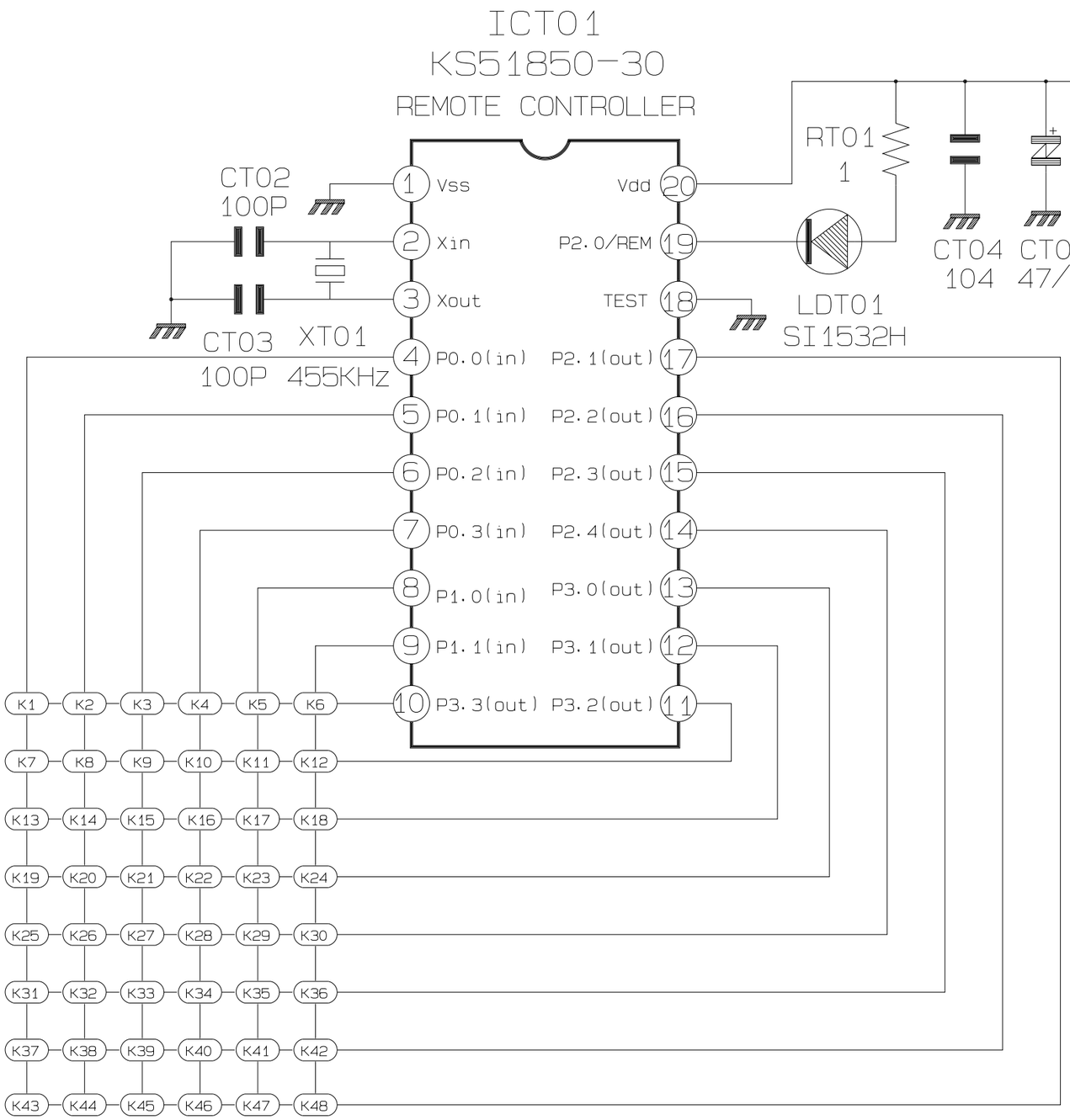


5-16 Remote-Control (Multi-TV)



1	2	3	4	5	6	7	REVEAL	OK/ENTER	MENU/PRO	Q-PRO
8	9	0	AFT	CH DWN	CH UP	KARAOKE	A OUT	*	MIX	SEARCH
VCR PWR	TV PWR		POWER	TV/VCR	DISPLAY	INPUT	GREEN	CLK/CNT	SHIFT	TEXT
VCR	TV	CBC	CLR	VCR+	SHUTTLE-	SHUTTLE+	BAND SEL	A.DUB	ERASE	PICTURE
REC	P/STILL	REW	STOP	PLAY	FF	ELECT	SYSTEM	I	VPS/PDC	PRE/SET
SP/LP	TRK-	TRK+	◁	▷	SLOW-	SLOW+	A.TRK	MARK	STROBO	LESSON
	-	+	▽	△						
(TEST)	MEMORY	INDEX	SEL UP	VOL DWN	VOL UP	MUTE	SHUTTLE1	SHUTTLE2	SHUTTLE3	SHUTTLE4

5-17 Remote-Control (VCR Only)



KEY NO.	KEY NAME	KEY NO.	KEY NAME	KEY NO.	KEY NAME
K1	VTR/TV	K17	STOP	K33	INDEX
K2	POWER	K18	P/S	K34	TRK+
K3	1	K19	SLOW DOWN	K35	TRK-
K4	2	K20	REW	K36	DUB
K5	3	K21	PLAY	K37	MARK
K6	4	K22	FF	K38	VCR+
K7	5	K23	CLEAR/RESET	K39	CLK/COUNT
K8	6	K24	DISPLAY	K40	SP/LP
K9	7	K25	MENU	K41	Q-PROGRAM
K10	8	K26	EJECT	K42	OK. ENTER
K11	9	K27	ATR	K43	SYSTEM
K12	CH DOWN	K28	OUTPUT SEL	K44	MODE/KARAOKE
K13	0	K29	INPUT SEL	K45	AFT
K14	CH UP	K30	MONITOR	K46	PICTURE
K15	SLOW UP	K31	ERASE	K47	SHUTTLE-
K16	REC/OTR	K32	TEST	K48	SHUTTLE+

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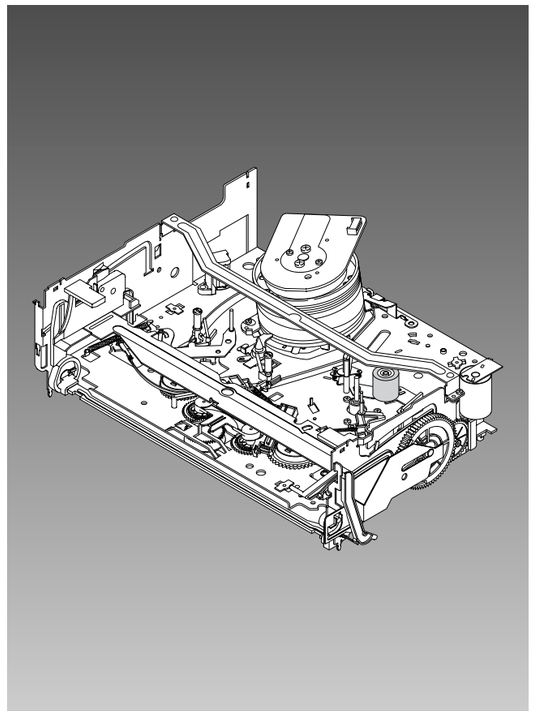
MECHANICAL Manual

◆ File with the SERVICE MANUAL.

VHS DECK



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1. Disassembly and Reassembly

2. Alignment and Adjustment

1. Disassembly and Reassembly

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1-1-1 Top View

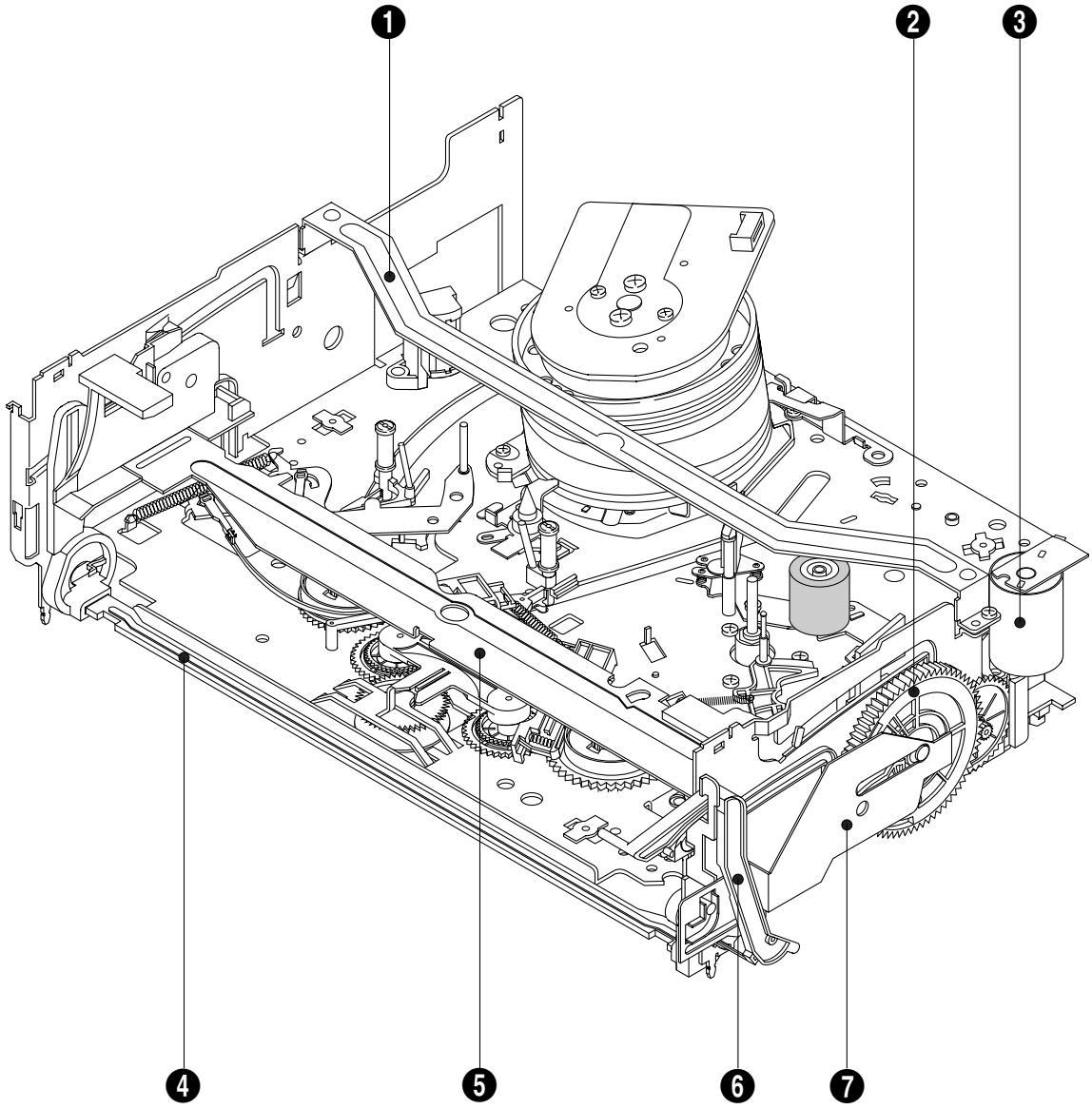


Fig. 1-1 Top parts Location-1

1. BRACKET FL TOP
2. GEAR FL CAM
3. MOTOR LOADING ASS'Y
4. LEVER FL ARM ASS'Y
5. HOLDER FL CASSETTE ASS'Y
6. LEVER FL DOOR
7. SLIDER FL DRIVE

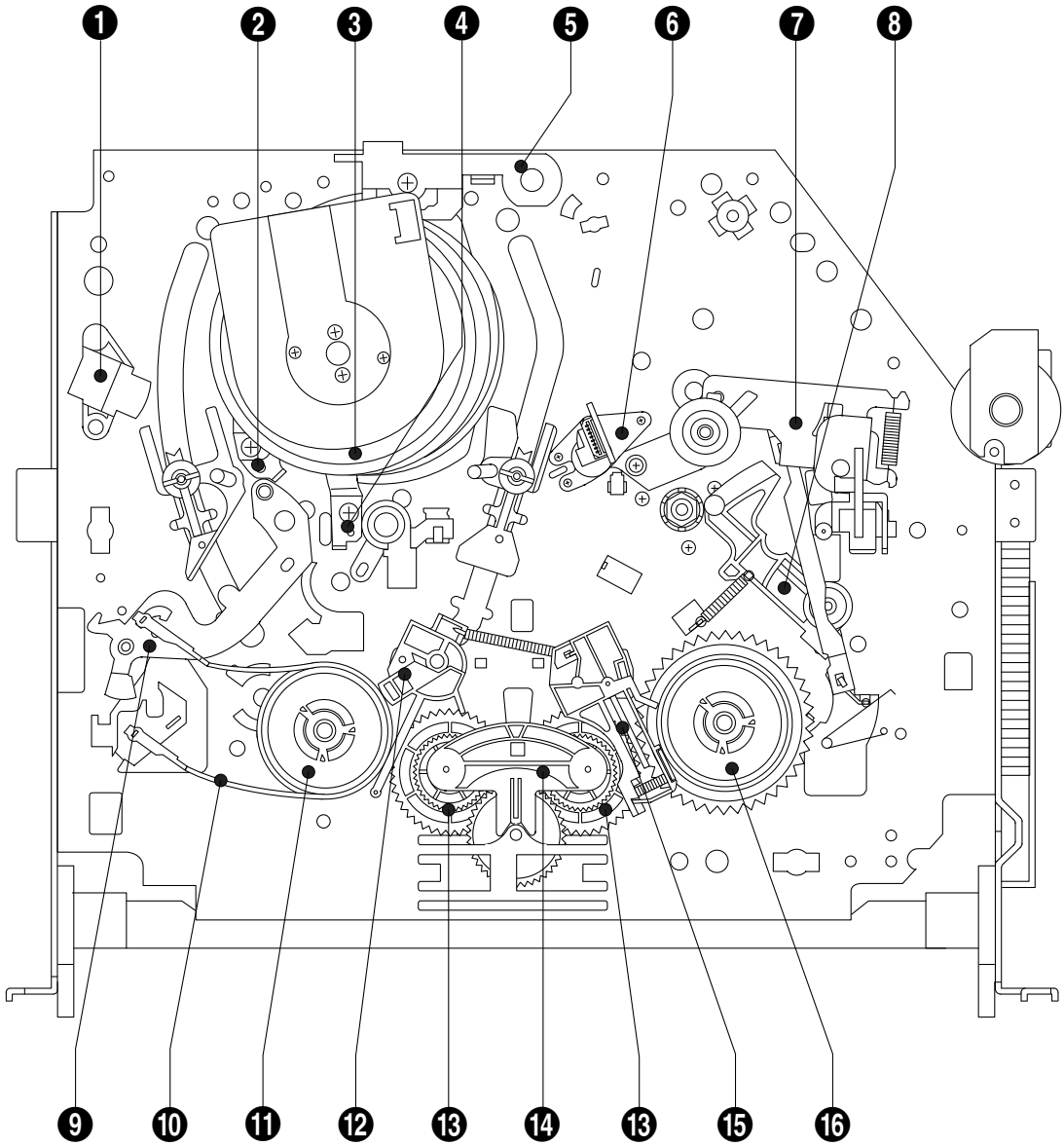


Fig. 1-2 Top Parts Location-2

❶ FE HEAD
❷ PLATE CYLINDER C
❸ CYLINDER ASS'Y
❹ PLATE CYLINDER B
❺ PLATE CYLINDER A
❻ ACE HEAD ASS'Y
❼ UNIT PINCH ASS'Y
❽ LEVER #9 GUIDE ASS'Y
❾ LEVER TENSION ASS'Y
❿ BAND BRAKE ASS'Y
⓫ DISK S REEL
⓬ LEVER S BRAKE ASS'Y
⓭ GEAR IDLE
⓮ LEVER IDLE
⓯ LEVER T BRAKE ASS'Y
⓰ DISK T REEL

1-1-2 Bottom View

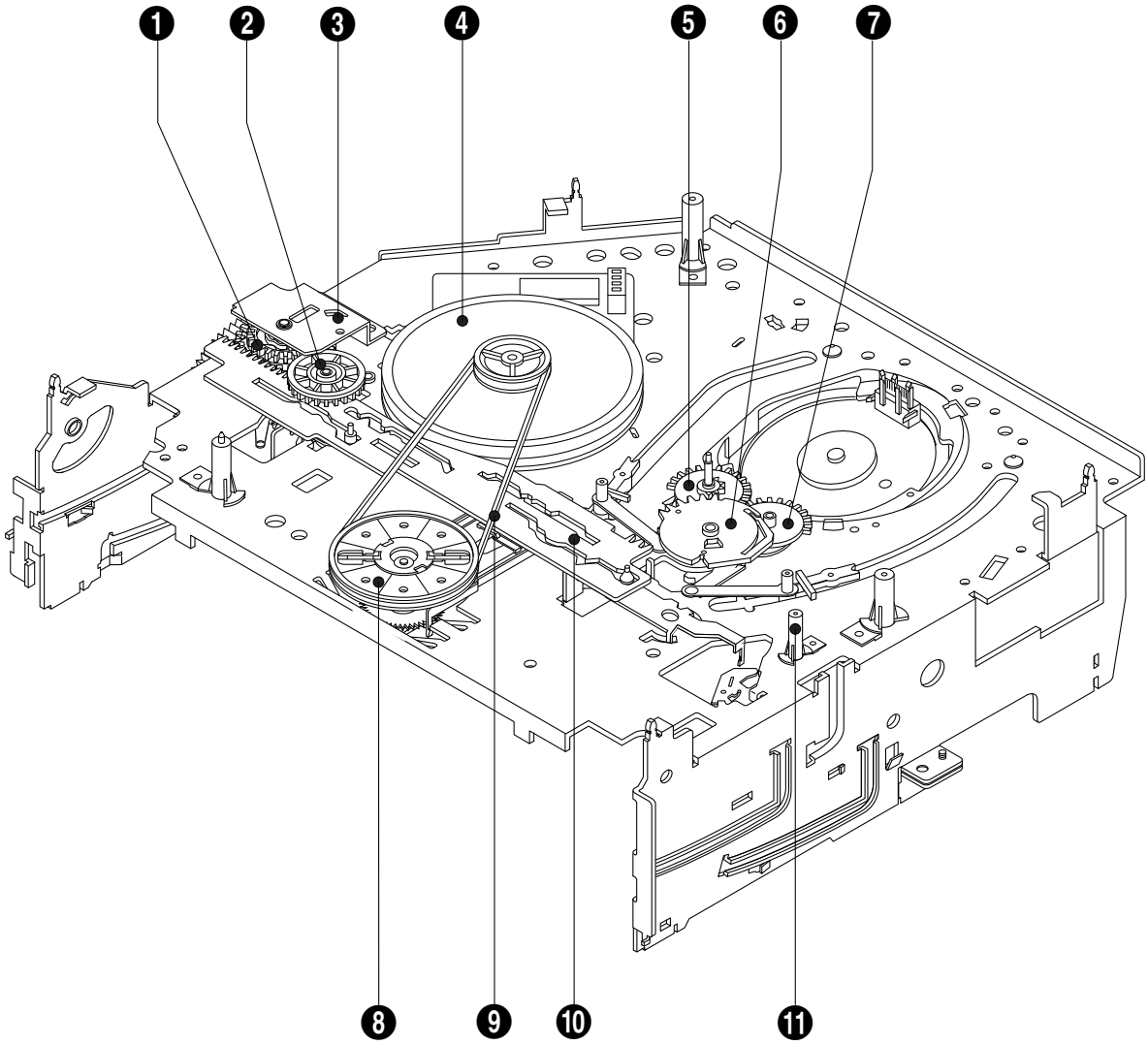


Fig. 1-3 Bottom Parts Location

1. GEAR JOINT 1
2. GEAR JOINT 2
3. BRAKET GEAR
4. MOTOR CAPSTAN ASS'Y
5. LEVER T LOAD ASS'Y
6. GEAR LOADING DRIVE
7. LEVER S LOAD ASS'Y
8. HOLDER CLUTCH ASS'Y
9. BELT PULLEY
10. SLIDER CAM
11. SLEEVE TENSION

1-2 Main Deck

1-2-1 Bracket FL Top Removal

1) Remove 2 screws ❶.
2) Remove the Bracket FL Top ❷.

Note : Take care not to change assembly direction.

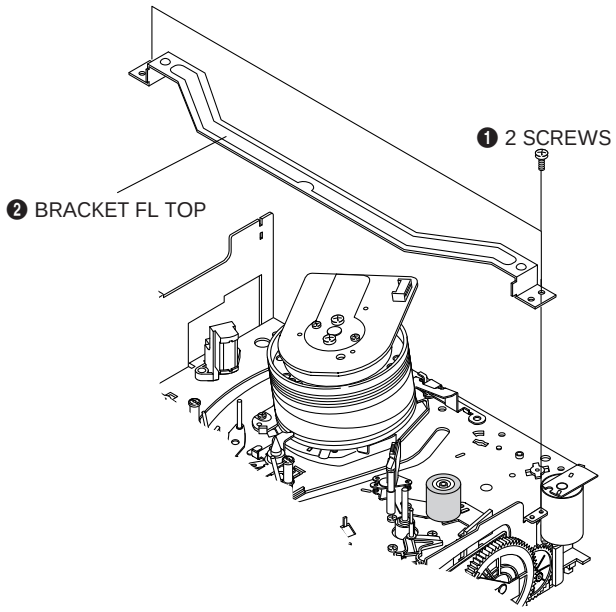


Fig. 1-4 Bracket FL Top Removal

1-2-2 Lever FL Door Removal

1) Rotate the Lever FL Door ❶ in the direction of arrow "A".
2) Release the Hook ❷, remove the Lever FL Door ❶ in the direction of arrow "B".

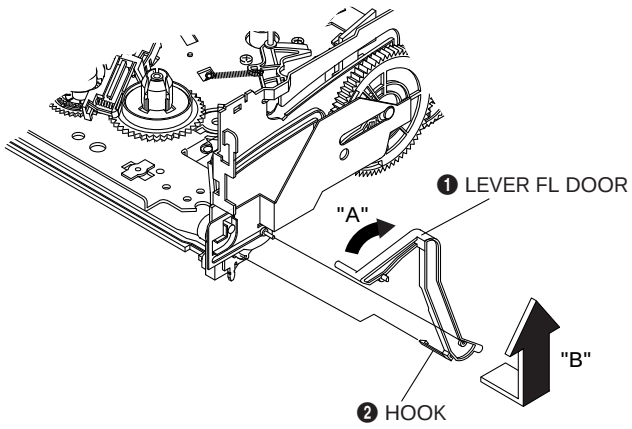


Fig. 1-5 Lever FL Door Removal

1-2-3 Holder FL Cassette Ass'y Removal

1) Remove the Lever FL Door. (Refer to Fig. 1-5)
2) Pull the Holder FL Cassette Ass'y ❶ to the eject position.
3) Pull the Holder FL Cassette Ass'y ❶ as grasping the Holder FL Cassette Ass'y ❶ and Lever FL Cassette-R ❷ in the same time to release hooking from Main Base until the Boss [A], [B] of Holder FL Cassette Ass'y ❶ is taken out from the Rail [C], [D].
4) Lift the Holder FL Cassette Ass'y ❶ in the direction of arrow "B" in this time, you have to grasp the Lever FL Cassette-R ❷ continuously until the Holder FL Cassette Ass'y ❶ is taken out completely.

Note : Be sure to insert Lever FL Cassette-R ❷ in the direction of "A" to prevent separation and breakage of the Lever FL Cassette-R ❷ at disassembling and reassembling.

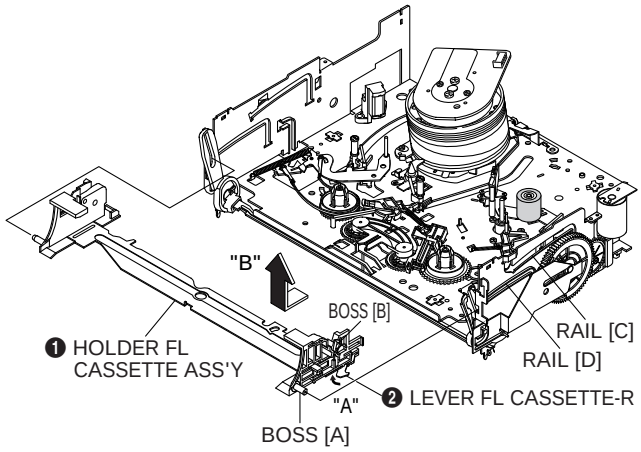


Fig. 1-6 Holder FL Cassette Ass'y Removal

1-2-4 Lever FL Arm Ass'y Removal

1) Remove the Lever FL Door. (Refer to Fig. 1-5)
2) Remove the Holder FL Cassette Ass'y. (Refer to Fig. 1-6)
3) Release the Hook ❶ in the direction of arrow "A", pull out the Lever FL Arm Ass'y ❹ from the Boss of Main Base.
4) Remove the Lever FL Arm Ass'y ❹ in the direction of arrow "B".

Assembly : When reinstalling, be sure to reassemble Lever FL Arm Ass'y ❹ after you insert the Boss ❷ in Groove [A] of Slider FL Drive ❸.

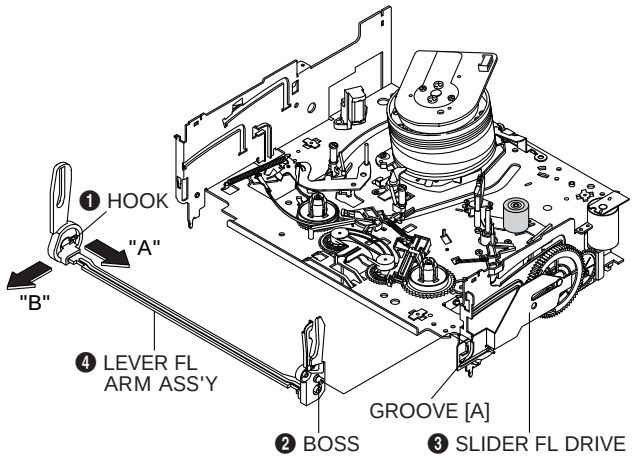


Fig. 1-7 Lever FL Arm Ass'y Removal

1-2-5 Slider FL Drive Removal

1) Pull the Slider FL Drive ❶ to the front direction.
2) Remove the Slider FL Drive ❶ in the direction of arrow. (Refer to Fig. 1-8)

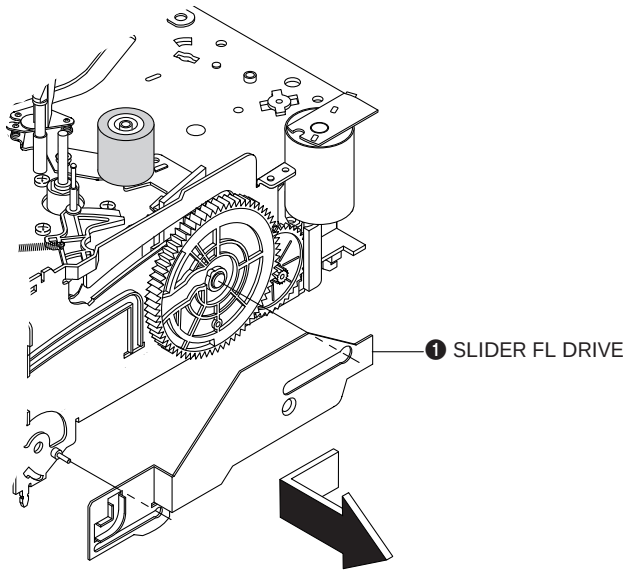


Fig. 1-8 Slider FL Drive Removal

1-2-6 Bracket Gear, Gear FL Cam, Gear Joint 1, 2 Removal

1) Remove screw ❶.
2) Lift the Bracket Gear ❷.
3) Remove the Gear FL Cam ❸.
4) Lift the Gear Joint 2 ❹, Gear Joint 1 ❺.

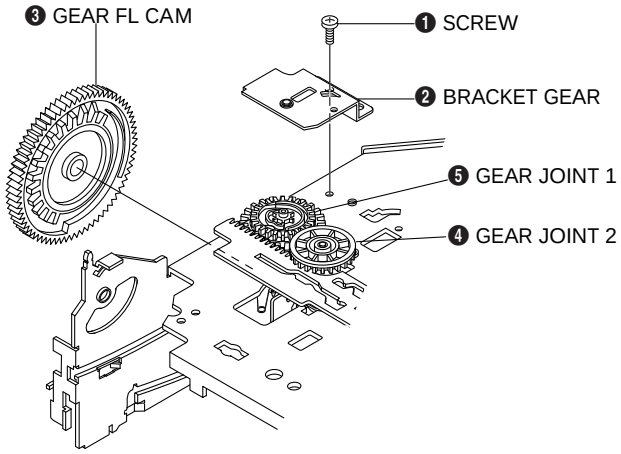


Fig. 1-9 Bracket Gear, Gear FL Cam, Gear Joint 1, 2 Removal

1-2-7 Assembly of Gear FL Cam, Gear Joint 1, 2

1) Be sure to align dot mark of Gear Joint 1 ❶ with dot mark of Gear Joint 2 ❷ as shown Fig. 1-10 (Refer to Timing Point 1), confirm the Timing Point 2 of the Gear Joint 2 ❷ and Slider Cam ❸.
2) Align the Gear FL Cam ❹ with the Gear Worm Wheel Post as shown detail drawing. (Refer to Timing Point 3)

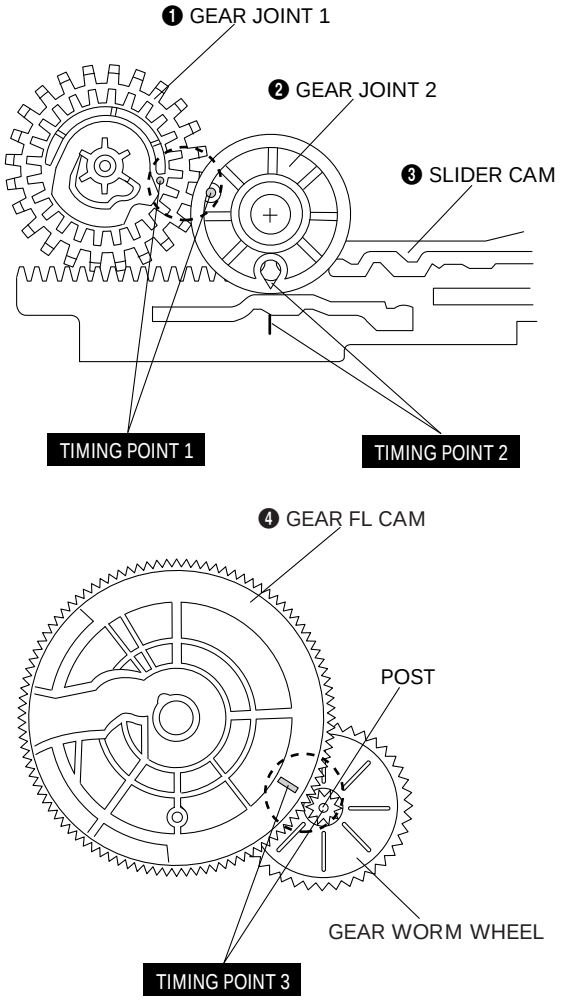


Fig. 1-10 Assembly of Gear FL Cam, Gear Joint 1,2

1-2-8 Holder Worm, Gear Worm, Gear Worm Wheel Removal

1) Release the Hook [A] in the direction of arrow and, remove the Holder Worm ❶.
2) Remove the Gear Worm ❷.
3) Remove the Gear Worm Wheel ❸. (After removing the Gear FL Cam as shown Fig. 1-9)

Note : Secure the Hook [A] after installing the Holder Worm ❶.

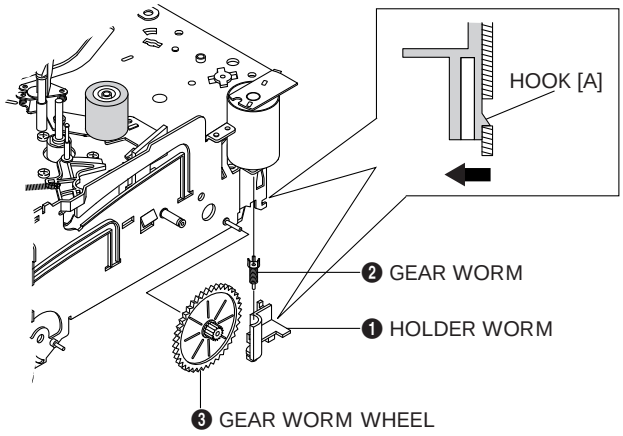


Fig. 1-11 Holder Worm, Gear Worm, Gear Worm Wheel Removal

1-2-9 Motor Loading Ass'y Removal

1) Remove the screw ❶.
2) Remove the Motor Loading Ass'y ❷.

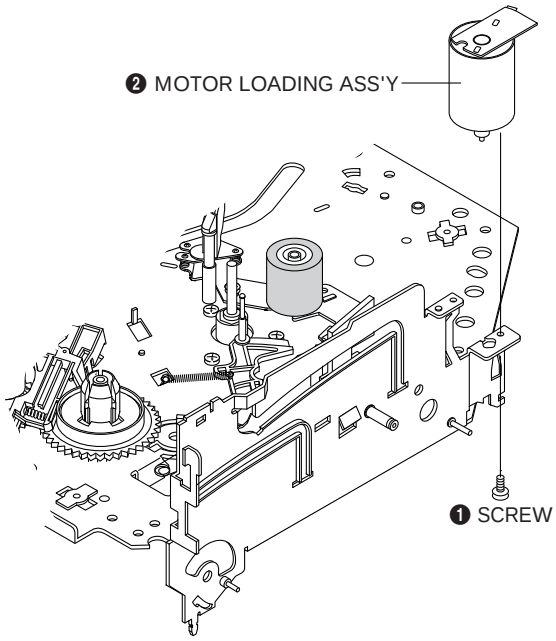


Fig. 1-12 Motor Loading Ass'y Removal

1-2-10 Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y Removal

1) Remove the Belt Pulley. (Refer to Fig. 1-29)
2) Remove the Gear Loading Drive ❶ after releasing Hook [A] in the direction arrow as shown in detail drawing.
3) Remove the Slider Cam ❷.
4) Remove the Lever T, S Load Ass'y ❸, ❹.

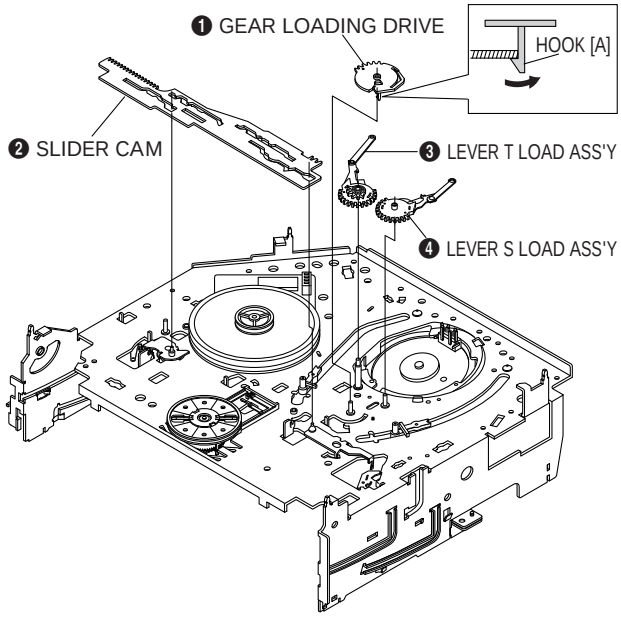


Fig. 1-13 Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y Removal

1-2-11 Assembly of Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y

1) When reinstalling, be sure to align dot of Lever T Load Ass'y ❶ with dot of Lever S Load Ass'y ❷ as shown in drawing. (Refer to Timing Point 1)
2) Insert the Pin A, B, C, D into the Slider Cam ❸ hole.
3) Be sure to align dot of Lever T Load Ass'y and dot of Gear Loading Drive ❹. (Refer to Timing Point 2)
4) Align dot of Gear Loading Drive with mark of Slider Cam as shown in drawing. (Refer to Timing Point 3)

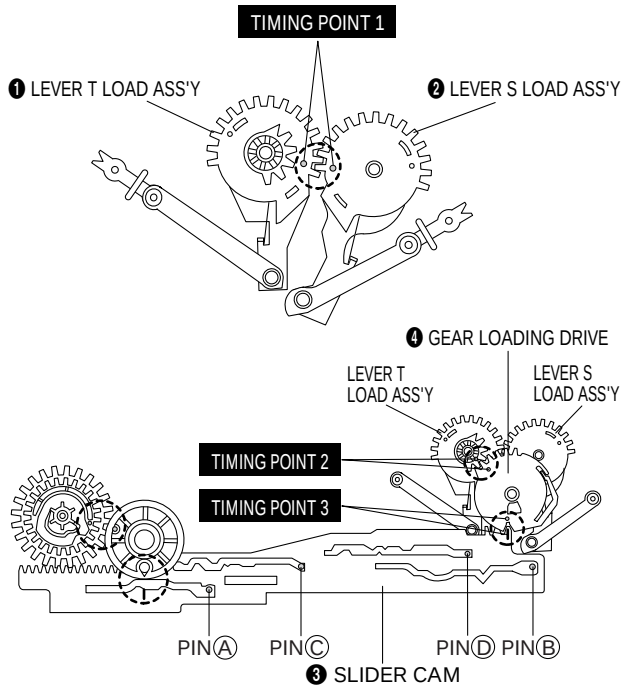


Fig. 1-14 Assembly of Gear Loading Drive, Slider Cam, Lever T, S Load Ass'y

1-2-12 Lever Tension Ass'y, Band Brake Ass'y, Sleeve Tension Removal

1) Remove the Spring Tension ❶.
2) In bottom side of Deck, remove the Sleeve Tension ❷ after rotating it right or left as lifting locking edge of Sleeve Tension.
3) Remove the side "a" of the Band Brake Ass'y ❹ in the direction of arrow "A" from the Lever Tension Ass'y ❸.
4) Remove the side "b" of the Band Brake Ass'y ❹ in the direction of arrow "B" from the Main Base.

Note :
1) When replacing the Lever Tension Ass'y, be sure to apply oil in the Sleeve Tension.
2) Take care not to touch stain on the felt side, and not to be folded and broken Band Brake Ass'y.

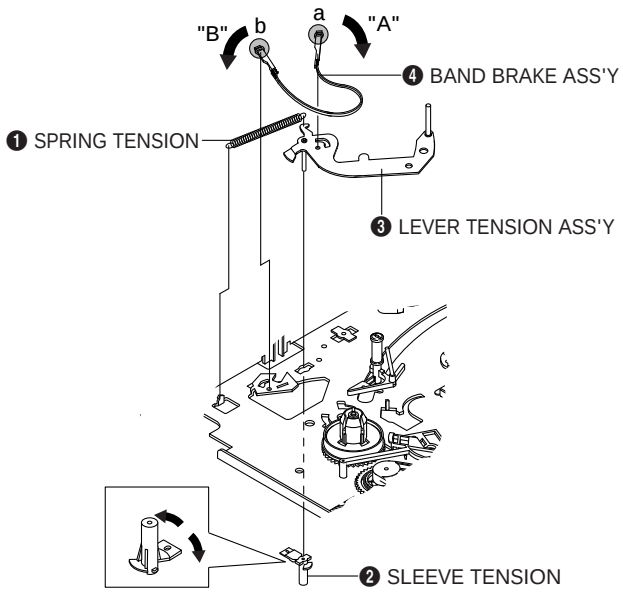


Fig. 1-15 Lever Tension Ass'y, Band Brake Ass'y, Sleeve Tension Removal

1-2-13 Lever S, T Brake Ass'y Removal

1) Release the Hook [A] and the Hook [B], [C] in the direction of arrow as shown in Fig. 1-16.
2) Lift the Lever S, T Brake Ass'y ❶, ❷ with Spring Brake ❸.

Assembly :
1) Assembly the Lever S Brake Ass'y ❶ on the Main Base.
2) Assembly the Lever T Brake Ass'y ❷ with Spring Brake ❸.

Note : Take extreme care not to be folded and transformed spring Brake at removing or reinstalling.

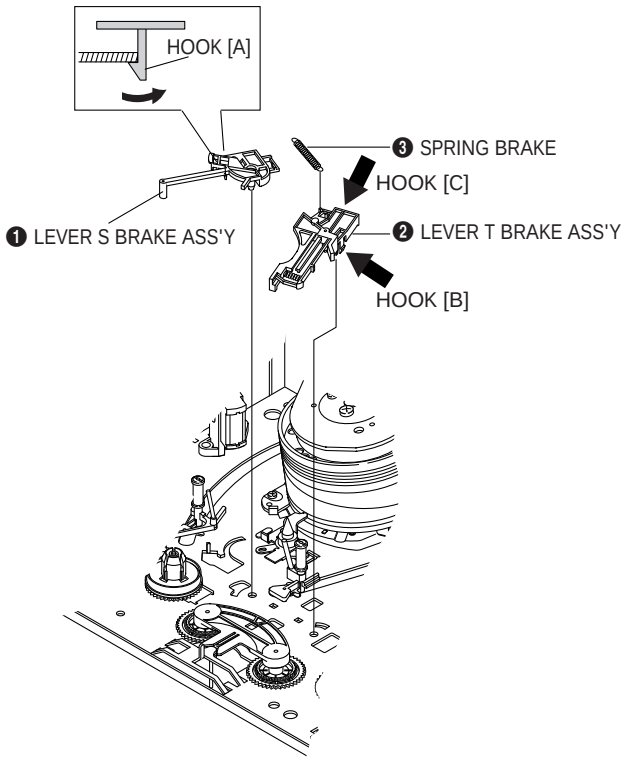


Fig. 1-16 Lever S, T Brake Ass'y Removal

1-2-14 Lever Idle Ass'y Removal

1) Push the Lever Idle ❶ in the direction of arrow "A", "B".
2) Lift the Lever Idle ❶.

Assembly :
1) Apply oil in two Bosses of Lever Idle ❶.
2) Assemble the Gear Idle ❷ with the Lever Idle ❶.

Note : When replacing the Gear Idle ❷, be sure to add oil in the boss of Lever Idle ❶.

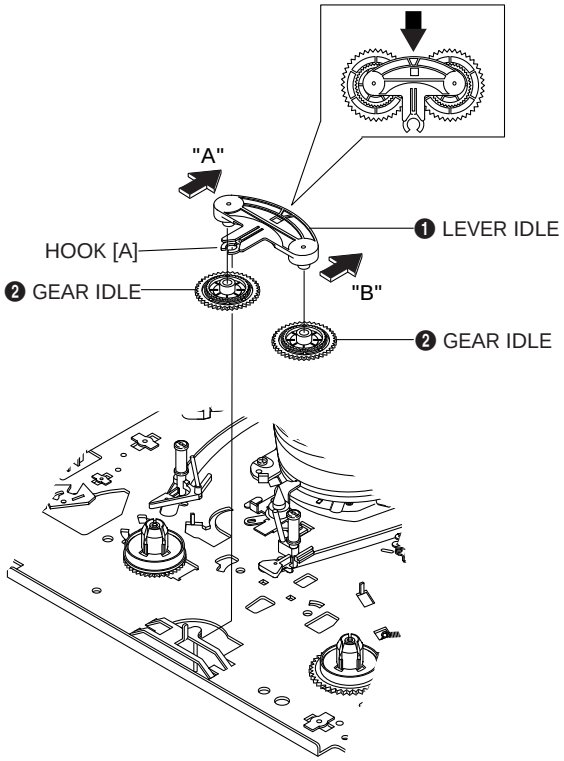


Fig. 1-17 Lever Idle Ass'y Removal

1-2-15 Disk S, T Reel Removal

1) Lift the Disk S, T Reel ❶, ❷.

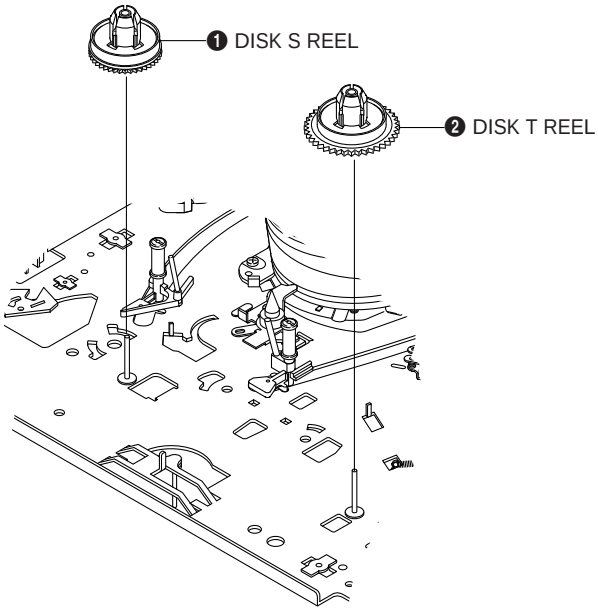


Fig. 1-18 Disk S, T Reel Removal

1-2-16 Holder Clutch Ass'y Removal

1) Remove the Washer Slit ❶.
2) Lift the Holder Clutch Ass'y ❷.

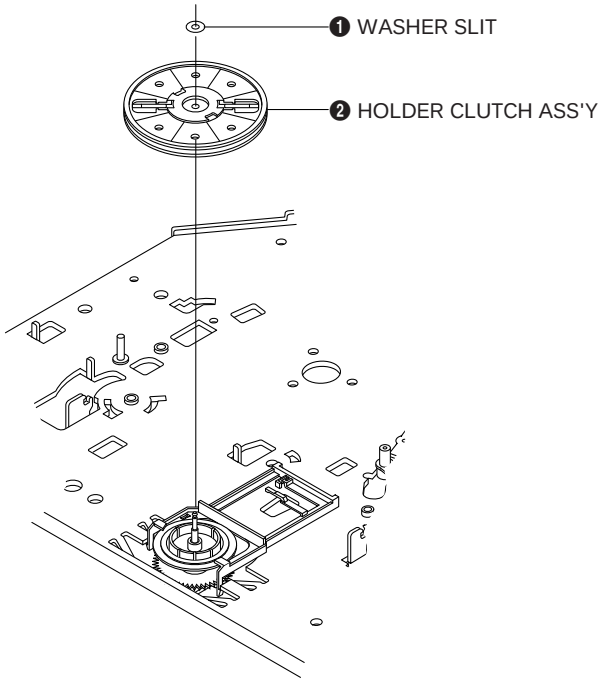


Fig. 1-19 Holder Clutch Ass'y Removal

1-2-17 Lever Up Down Ass'y, Gear Center Ass'y Removal

1) Remove the 2 hooks in the direction of arrow as shown Fig. 1-20 and lift the Lever Up Down Ass'y ❶.
2) Lift the Gear Center Ass'y ❷.

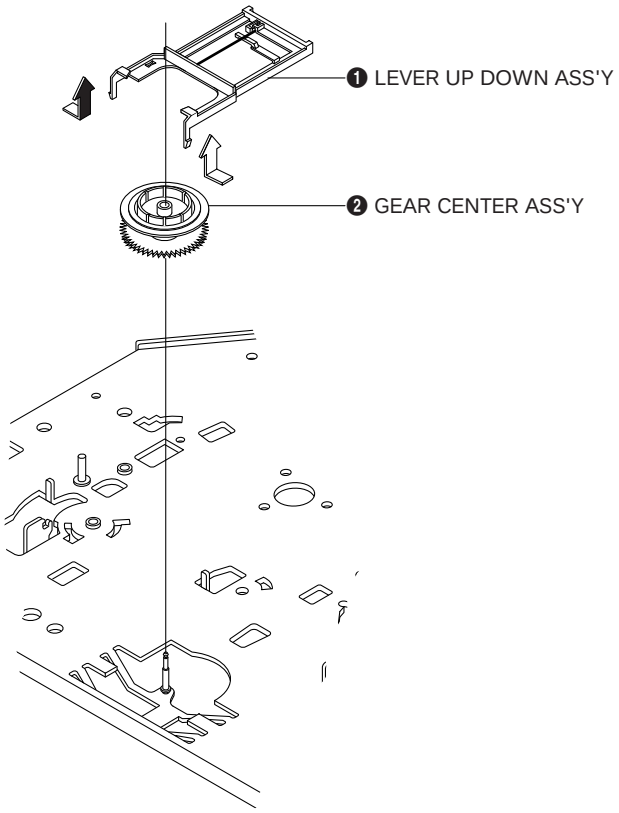


Fig. 1-20 Lever Up Down Ass'y, Gear Center Ass'y Removal

1-2-18 Assembly of Lever Up Down Ass'y, Gear Center Ass'y

1) Insert the Lever Up Down Ass'y ❶ in the 2 rectangular holes on Main Base.
2) Lift the Lever Up Down Ass'y ❶ about 35 degree. (Refer to Fig. 1-21)
3) Insert Ring ❹ of the Gear Center Ass'y ❷ in the Guide ❺ of the Lever Up Down Ass'y ❶.
4) Insert the Gear Center Ass'y ❷ in the post ❻ on Main Base.
5) Push down the Lever Up Down Ass'y ❶ for locking of the Hook ❼.

Note :
1) Take care not to separate and loose the Spring Up Down.
2) When assembling the Gear Center Ass'y, don't push down too much.

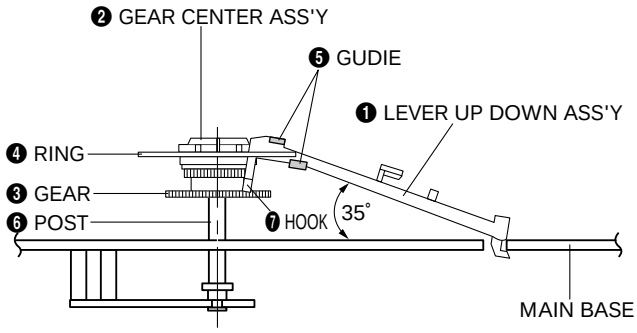


Fig. 1-21 Assembly of Lever Up Down Ass'y, Gear Center Ass'y

1-2-19 Guide Cassette Door Removal

1) Lift the Hook [A].
2) Rotate the Guide Cassette Door ❶ in the direction of arrow.

Note : After reinstalling the Guide Cassette Door ❶ secure the Hook [A].

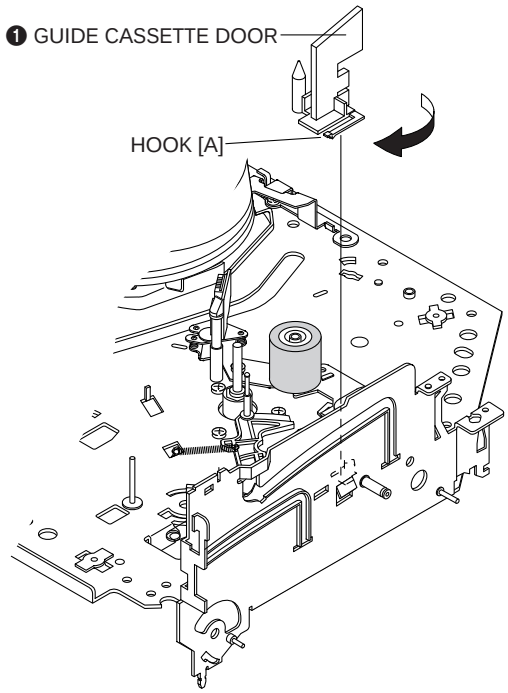


Fig. 1-22 Guide Cassette Door Removal

1-2-20 Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

1) Lift the Unit Pinch Ass'y ❶.
2) Remove the Plate Joint ❷ from Lever Pinch Drive.
3) Remove the Spring Pinch Drive ❸.

Note :
1) Take extreme care not to touch the grease on the Roller Pinch.
2) When reinstalling, be sure to apply grease on the post pinch roller.

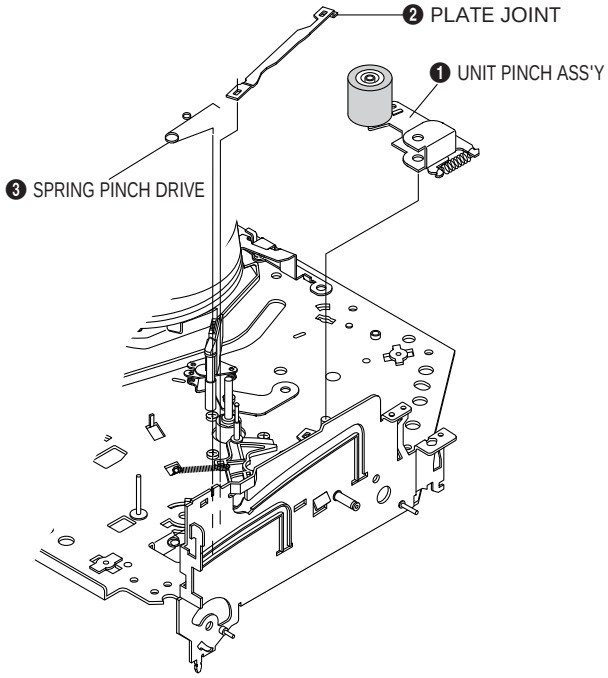


Fig. 1-23 Unit Pinch Ass'y, Plate Joint, Spring Pinch Drive Removal

1-2-21 Lever #9 Guide Ass'y Removal

1) Remove the Spring #9 Guide ❶.
2) Lift the Lever #9 Guide Ass'y ❷ in the direction of arrow.

Note :
1) Take extreme care not to touch the grease on the tape Guide Post.
2) After reinstalling, check the bottom side of the Post #9 Guide to stick to the top side of Main Base.

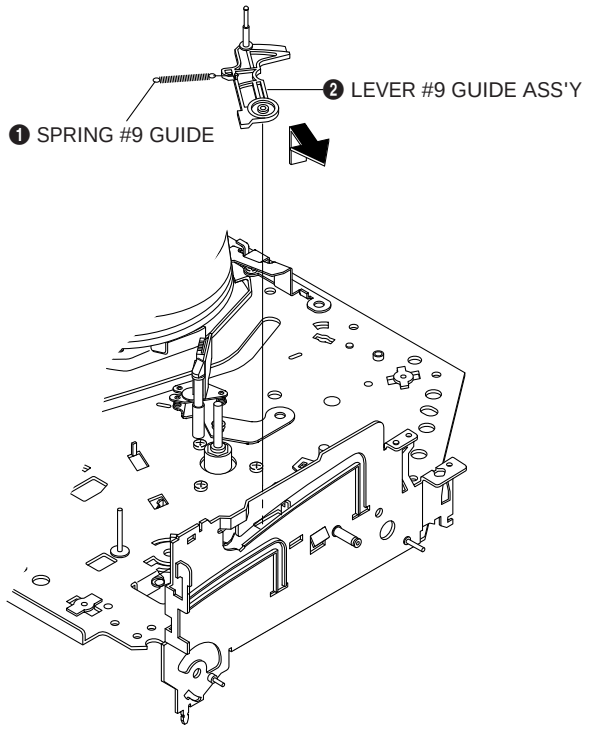


Fig. 1-24 Lever #9 Guide Ass'y Removal

1-2-22 FE Head Removal

1) Remove the screw ❶.
2) Lift the FE Head ❷.

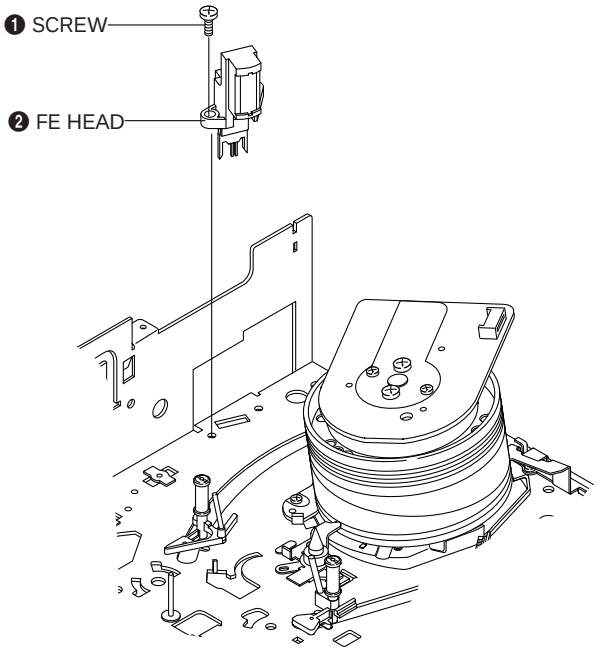


Fig. 1-25 FE Head Removal

1-2-23 ACE Head Removal

1) Pull out the FPC from connector of ACE Head Ass'y ❷.
2) Remove the screw ❶.
3) Lift the ACE Head Ass'y ❷.

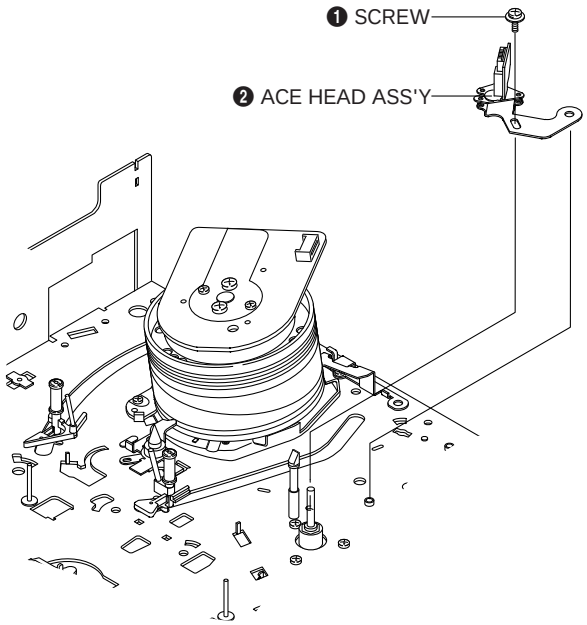


Fig. 1-26 ACE Head Removal

1-2-24 Slider S, T Ass'y Removal

1) Move the Slider S, T Ass'y ❶, ❷ to slot, and then lift it to remove. (Refer to arrow)

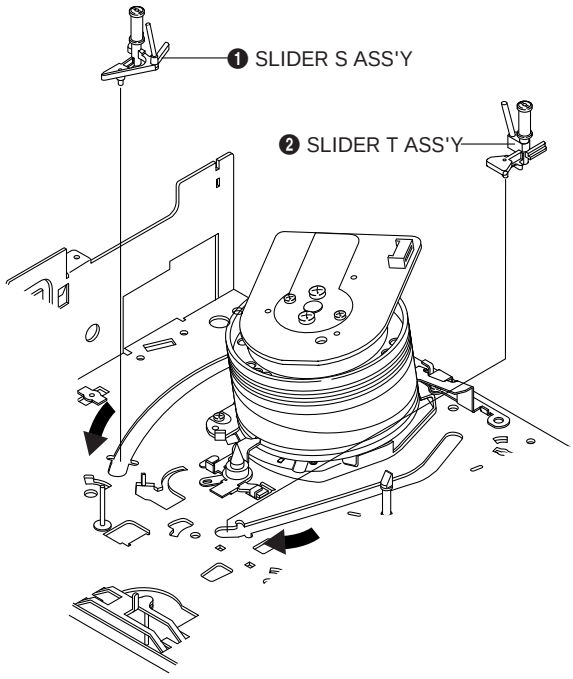


Fig. 1-27 Slider S, T Ass'y Removal

1-2-25 Cylinder Ass'y Removal

1) Remove the 3 Screws ❶, ❸, ❺.
2) Remove the Plate Cylinder A, B, C ❷, ❹, ❻ in the direction of arrow.
3) Lift the Cylinder Ass'y ❼.

Note :
1) When reinstalling, push the Plate Cylinder A, B ❹, ❻ in the reverse of arrow and then, tighten the 2 Screws ❸, ❺.
2) Take care not to touch the Cylinder Ass'y and the tape guide post at reinstalling Plate Cylinder C ❷.
3) Take care not to touch the Cylinder Ass'y with screw driver at reinstalling the Plate Cylinder C ❷.

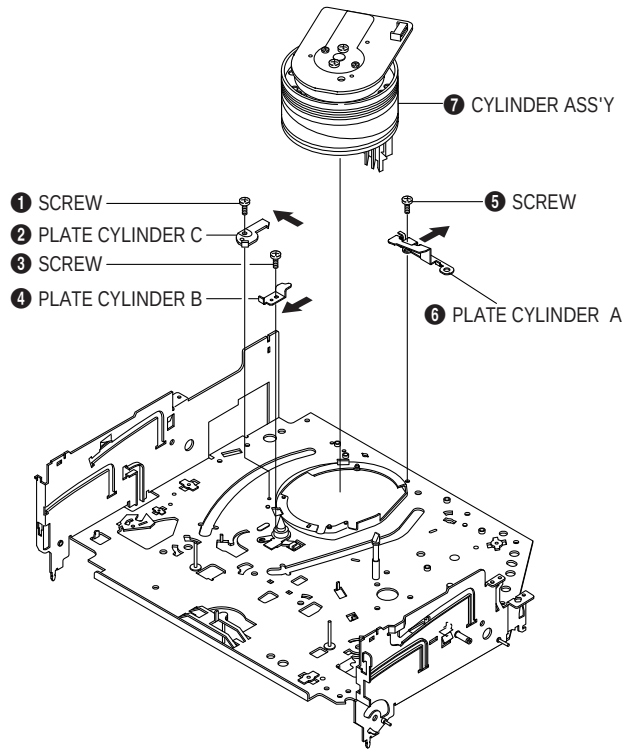


Fig. 1-28 Cylinder Ass'y Removal

1-2-26 Belt Pulley Removal

1) Remove the Belt Pulley ❶.

Note : Take extreme care not to touch the grease on Belt Pulley ❶ at assembling or reassembling.

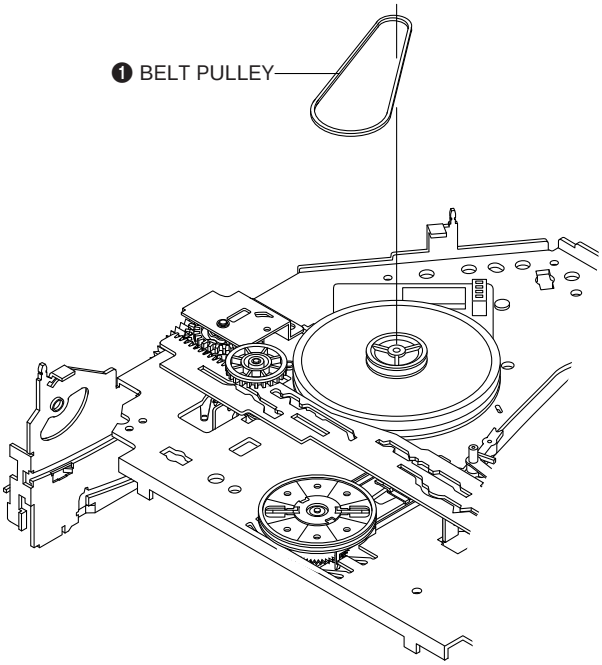


Fig. 1-29 Belt Pulley Removal

1-2-27 Lever Head Cleaner Ass'y Removal (Optional)

1) Release the Hook ❶.
2) Lift the Lever Head Cleaner Ass'y ❷.

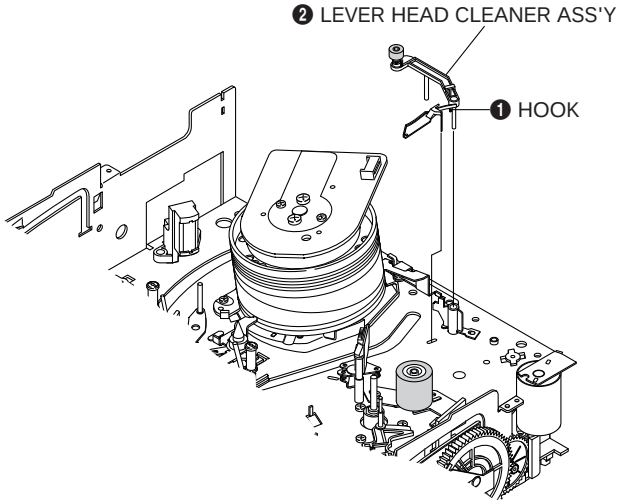


Fig. 1-30 Lever Head Cleaner Ass'y Removal

1-2-28 Motor Capstan Ass'y Removal

1) Remove the 3 Screws ❶.
2) Remove the Motor Capstan Ass'y ❷.

Assembly :
1) Match the 3 holes of Motor Capstan Ass'y ❷ to the 3 holes of Main Base as attending not to drop or knock the Motor Capstan Ass'y.
2) Tighten the 3 Screws in the direction of arrow as shown detail drawing.

Note :
1) Don't reuse the removed screws from Motor Capstan Ass'y.
2) After tightening screws, check if there is gap between the head of screws and the top side of Main Base. There should have no gap between the head of screws and the top side of Main Base.
3) After reinstalling, adjusting the tape transport system again.

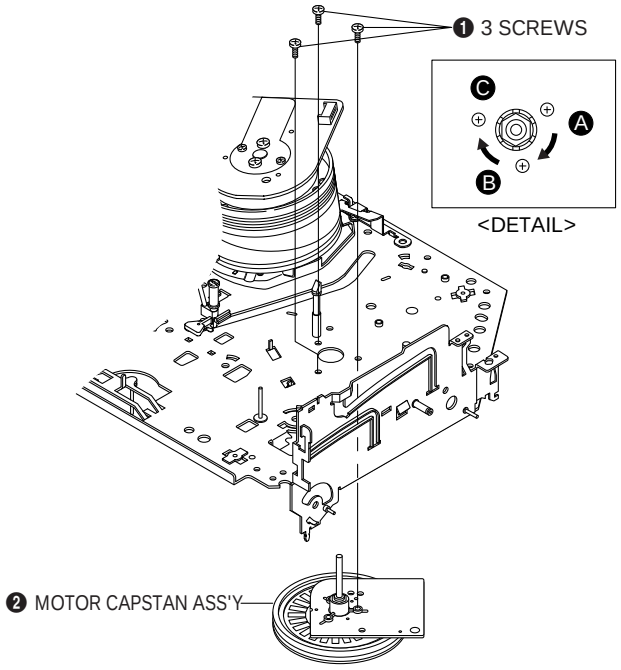


Fig. 1-31 Motor Capstan Ass'y Removal

1-2-29 How to Eject the Cassette Tape (If the unit does not operate on condition that is inserted into housing ass'y)

1) Remove the Holder worm ❶ and the Gear Worm ❷.
2) Turn the Gear Worm Wheel ❸ counterclockwise with screw driver. (Refer to arrow)

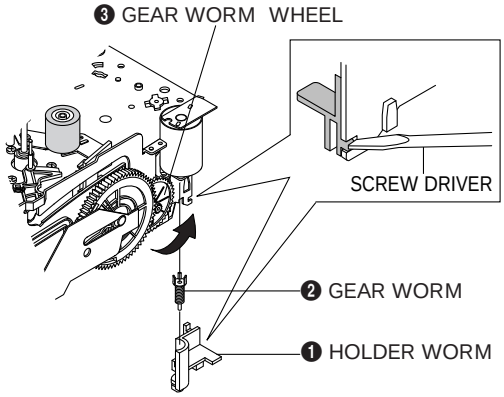


Fig. 1-32

3) When Slider S, T are approached in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwounded tape. (Refer to Fig. 1-33)
(If you rotate Gear Worm Wheel continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwounded tape in the state of set horizontally.)
4) Rotate Gear Worm Wheel ❸ counterclockwise using screw driver again up to the state of eject mode and then pick out the tape. (Refer to Fig. 1-32)

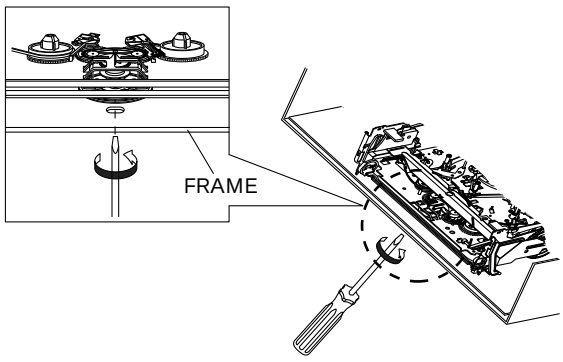


Fig. 1-33

1-3 The table of clearing, Lubrication and replacement time about principal parts

1) The replacement time of parts is not life of parts.
2) The table 1-1 is that the VCR Set is in normal condition (normal temperature, normal humidity).
   The checking period may be changed owing to the condition of use, runtime and environmental conditions.
3) Life of the Cylinder Ass'y is depend on the condition of use.
4) See exploded view for location of each parts.

<Table 1-1>

*	Parts Name	Checking Period										Remark
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000	
TAPE PATH SYSTEM	POST TENSION	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	- To clean the parts, use patch and alcohol (solvent). - After cleaning, use the video tape after alcohol is gone away completely. - We recommend to use oil [EP-56] or solvent. - One or two drops of oil should be applied after cleaning with alcohol.
	SLANT POST S, T	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#8 GUIDE SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	CAPSTAN SHAFT	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#9 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	#3 GUIDE POST	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
	GUIDE ROLLER S, T	Δ	Δ	Δ	O	O	O	O	O	O	O	
	CYLINDER ASS'Y	Δ	O	O	O	O	O	O	O	O	O	
	FE HEAD	Δ	Δ	Δ	O	O	O	O	O	O	O	
	ACE HEAD	Δ	O	O	O	O	O	O	O	O	O	
	PINCH ROLLER	Δ	O	O	O	O	O	O	O	O	O	
	POST REEL S, T		◆		◆		◆		◆		◆	- Periodic time of applying oil (Apply oil after cleaning) - The excessive applying oil may be the cause of malfunction.
	SLEEVE TENSION		◆		◆		◆		◆		◆	
	POST CENTER		◆		◆		◆		◆		◆	
	LEVER IDLE BOSS (2Point)		◆		◆		◆		◆		◆	
DRIVING SYSTEM	CAPSTAN MOTOR PULLEY	Δ	Δ	Δ	Δ	Δ	O	O	O	O	O	
	BELT PULLEY				O	O	O	O	O	O	O	
	HOLDER CLUTCH ASS'Y	Δ	O	O	O	O	O	O	O	O	O	
	GEAR CENTER ASS'Y		O	O	O	O	O	O	O	O	O	
	GEAR IDLE (2Point)		O	O	O	O	O	O	O	O	O	
	LOADING MOTOR		O	O	O	O	O	O	O	O	O	
BRAKE SYSTEM	BAND BRAKE ASS'Y		O	O	O	O	O	O	O	O	O	
	BRAKE T ASS'Y		O	O	O	O	O	O	O	O	O	

Δ : Cleaning O : Check and replacement in necessary ◆ : Add Oil

2. Alignment and Adjustment

2-1 Tape Transport System and Adjustment Locations

The tape transport system has been adjusted precisely in the factory. Alignment is not necessary except for the following :
1) Noise observed on the screen.
2) Tape damage.
3) Parts replacement in the tape transport system.

Lower flange height of tape guide is used as the reference for the transport adjustment.
To maintain the height of the tape guide and prevent damage, do not apply excessive force onto the main base.

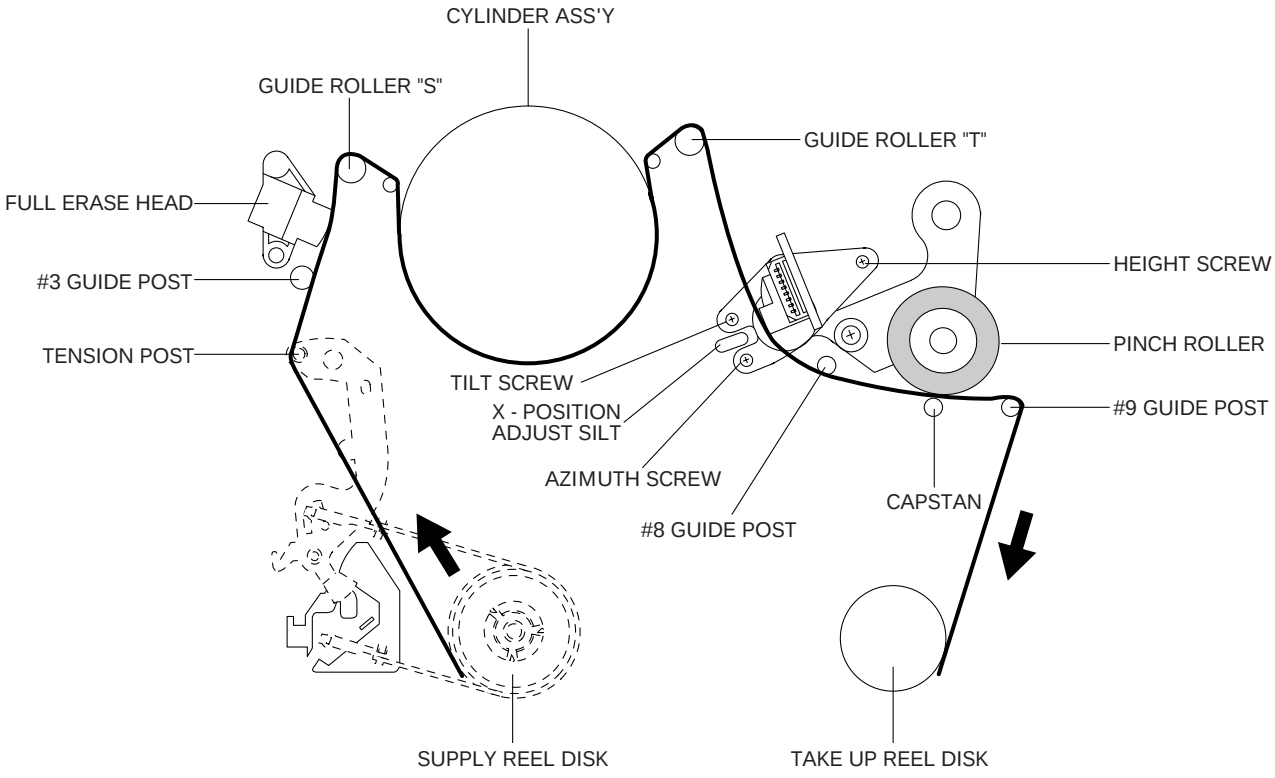


Fig. 2-1 Location of Tape Transport Adjustment

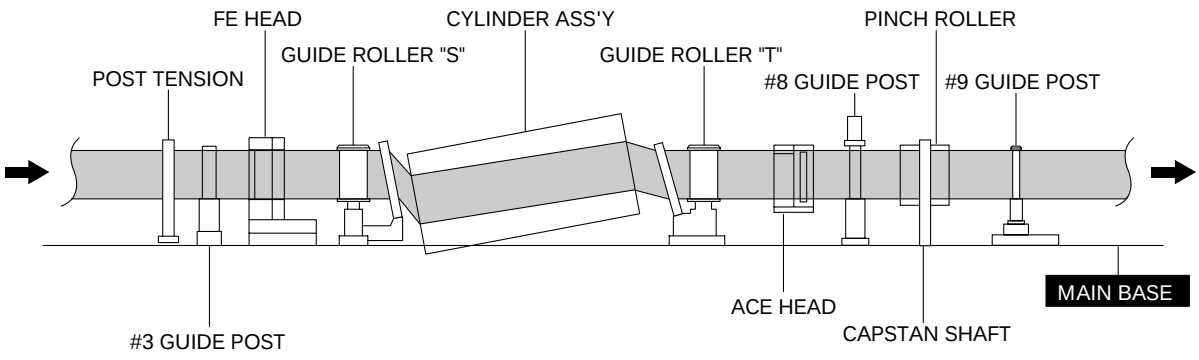


Fig. 2-2 Tape Travel Diagram

2-2 Tape Transport System Adjustment

When parts are replaced, perform the required adjustments by referring to procedures for the tape transport system. If there are any changes to the tape path, first run a T-120 tape and make sure excessive tape wrinkle does not occur at the tape guides.

1) If tape wrinkle is observed at the guide roller S, T, turn the guide roller S, T until wrinkle disappears.
2) If the tape wrinkle is still observed at the tape guide, perform the tilt adjustment of the ACE head. (See page 5-3 of the Service Manual for Test Point Locations.)

2-2-1 ACE Head Assembly Adjustment

2-2-1(a) ACE HEAD HEIGHT ADJUSTMENT

1) Run the alignment tape (Color bar) in the playback mode.
2) Observe surface of the audio head using a dental mirror.
3) Turn screw (C) clockwise or counterclockwise until the gap of lower tape edge and the lower edge of the control head is about 0.25mm. (Refer to Fig. 2-3 and 2-4)

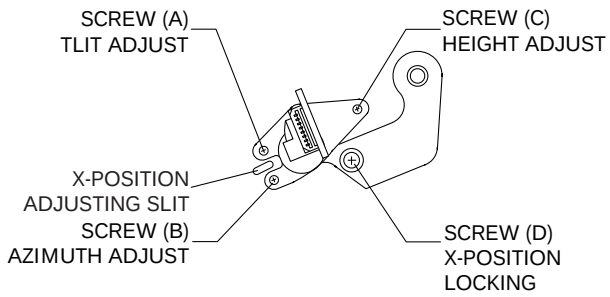


Fig. 2-3 Location of ACE Head Adjustment Screw

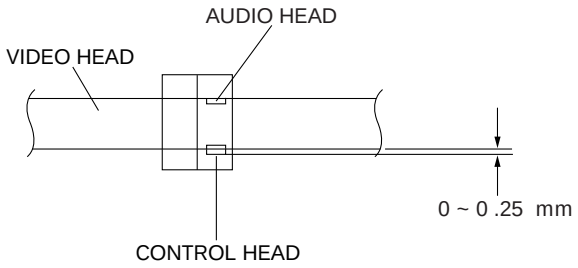


Fig. 2-4 ACE Head Height Adjustment

2-2-1(b) ACE HEAD TILT ADJUSTMENT

1) Playback a blank tape and observe the position of the tape at the lower flange of tape guide.
2) Confirm that there is no curl or wrinkle at the lower flange of tape guide as shown in Fig. 2-5 (B).
3) If a curl or wrinkle of the tape occurs, slightly turn the screw (A) tilt adjust on the ACE head ass'y.
4) Reconfirm the ACE head height.

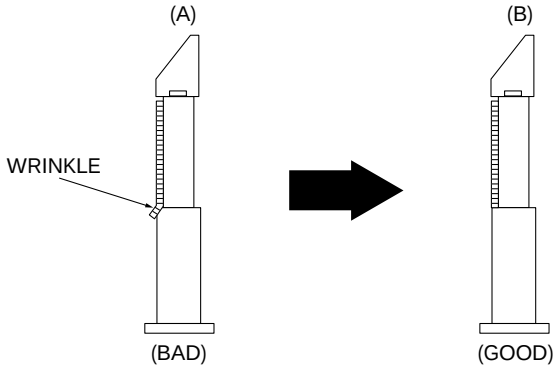


Fig. 2-5 Tape Guide Check

2-2-1(c) AUDIO AZIMUTH ADJUSTMENT

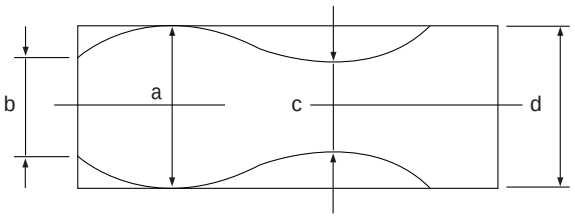
1) Load alignment tape (Mono scope) and playback the NTSC : 7KHz (PAL : 6KHz) signal.
2) Connect channel-1 scope probe to audio output test point.
3) Adjust screw (B) to achieve maximum audio level. (See Fig. 2-3)

2-2-1(d) ACE HEAD POSITION (X-POINT) ADJUSTMENT

1) See page 5-1 of the Service Manual for ACE Head position (X-Point) adjustment.

2-2-2 Linearity adjustment (Guide roller S, T adjustment)

1) Playback the Mono Scope alignment tape (SP mode).
2) Observe the video envelope signal on an oscilloscope (triggered by the video switching pulse).
3) Make sure the video envelope waveform (at its minimum) meets the specification shown in Fig. 2-6.
   If it does not, adjust as follows :



a b c d
c,b,d/a ≧ 63%

Fig. 2-6 Envelope Waveform Adjustment

Note :
a=Maximum output of the video RF envelope.
b=Minimum output of the video RF envelope at the entrance side.
c=Minimum output of the video RF envelope at the center point.
d=Maximum output of the video RF envelope at the exit side.

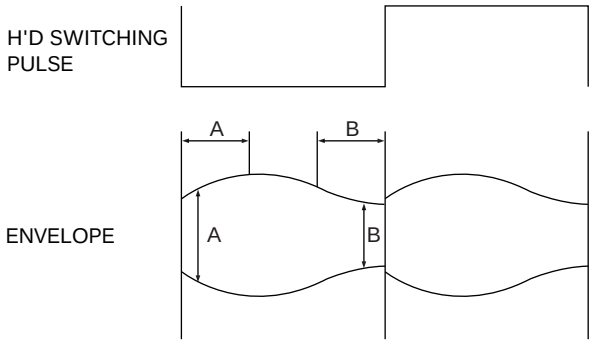


Fig. 2-7 Adjustment Points

4) If the section A in Fig. 2-7 does not meet the specification, adjust the guide roller S up or down.
5) If the section B in Fig. 2-7 does not meet the specification, adjust the guide roller T up or down.
6) Play back the Mono Scope alignment tape (SP mode).
7) Connect an oscilloscope CH-1 to the Envelope and CH-2 to the H'D SW Pulse for triggering.
8) Turn the guide roller heads with a flat head (▬) driver to obtain a flat video RF envelope as shown in Fig. 2-8.

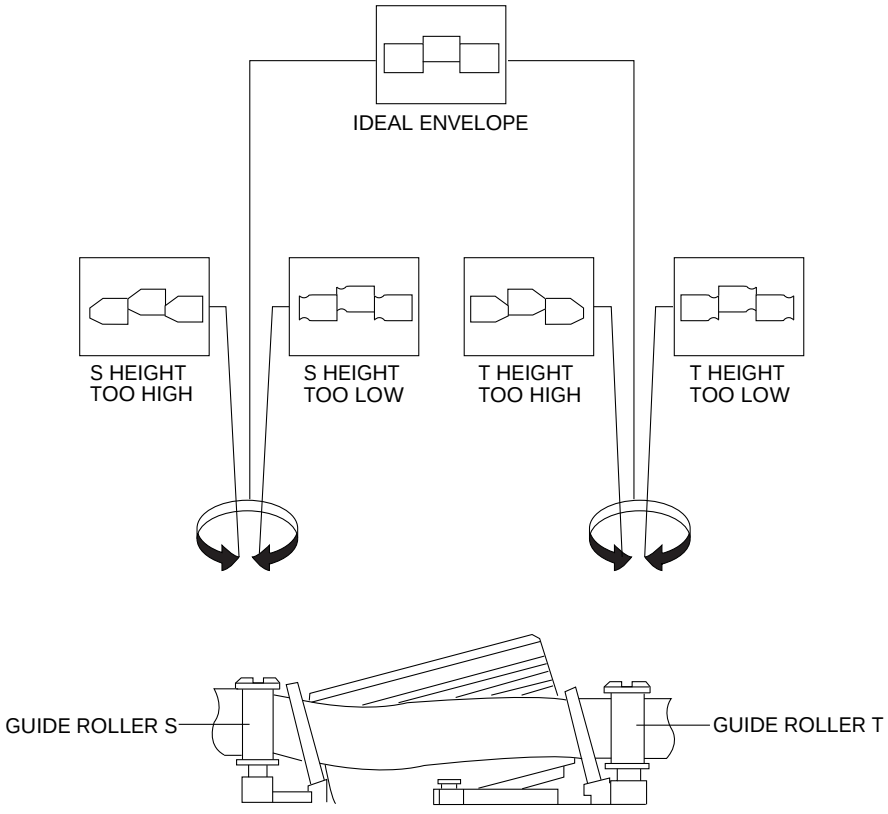


Fig. 2-8 Guide Roller S, T Height Adjustment

2-2-3 Check Transitional Operation from RPS to Play

Check transition from RPS mode to play mode :
Using a pre-recorded SP tape, make sure the entry side of envelope comes to an appropriate steady state within 3 seconds (as shown in Fig. 2-9).
If the envelope waveform does not reach specified peak-to peak amplitude within 3 seconds, adjust as follows :

1) Make sure there is no gap between the supply roller lower flange and the tape.
   If there is a gap, adjust the supply guide roller again.
2) Change operation mode from the RPS to the play mode (again) and make sure the entry side of envelope rises within 3 second.

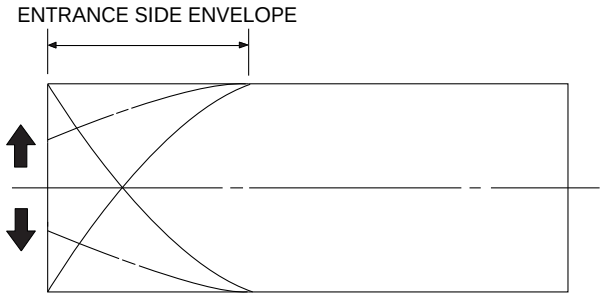


Fig. 2-9 Video Envelope Rising when Operation mode Changes from RPS to Play Mode

2-2-4 Envelope Check

1) Make recordings on T-120 (E-120) and T-160 (E-180) tape.
   Make sure the playback output envelope meets the specification as shown in Fig. 2-10.
2) Play back a self recorded tape (recording made on the unit using with T-120 (E-120).
   The video envelope should meet the specification as shown in Fig. 2-10.
   In SP mode, (A) should equal (B).
   If the head gap is wide, upper cylinder should be checked.

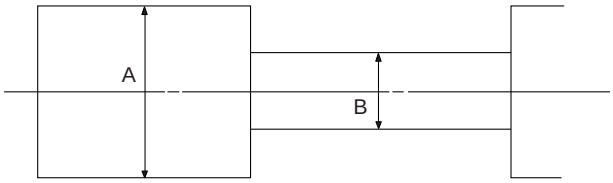


Fig. 2-10 Envelope Output and Output Level

2-2-5 Tape Wrinkle Check

1) Run the T-160 (E-180) tape in the playback, FPS, RPS and Pause modes and observe tape wrinkle at each guide.
2) If excessive tape wrinkle is observed, perform the following adjustments in Playback mode :

- Tape wrinkle at the guide roller S, T section : Linearity adjustment.
- Tape wrinkle at tape guide flange : ACE head assembly coarse adjustment.

2-3 Reel Torque

1) The rotation of the capstan motor causes the Holder Clutch Ass'y to rotate through the Belt Pulley.
2) The spring wrap PLAY/REV of holder clutch ass'y drives the disk reel S, T through gear idle by rotation of gear center ass'y.
3) Brake is operated by slider cam at FF/REW mode.
4) Transportation of accurate driving force is done by gears. (Gear Center Ass'y)

Note : If the spec. does not meet the followings specifications, replace the holder clutch ass'y and then recheck.

<Table 2-1>

MODE	TORQUE g/cm		GAUGE
PB	NTSC	82.5 ± 27.5	Cassette Torquemeter
	PAL	79 ± 27	
RPS	145 ± 30		Cassette Torquemeter

2-4 Location adjustment and Confirmation of Tension Post

1) Remove the holder cassette ass'y and then push the lever FL Arm-R to the direction of loading.
2) Push the lever tension drive ❶ in the direction of arrow. (See Fig. 2-11)
3) Turn the gear worm wheel ❷ clockwise so that "Timing Point" of the slider FL drive ❸ and gear FL cam ❹ can be aligned (See Fig. 2-12)

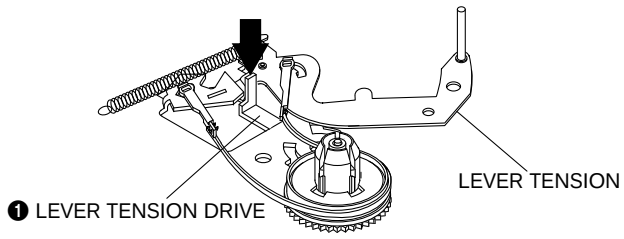


Fig. 2-11

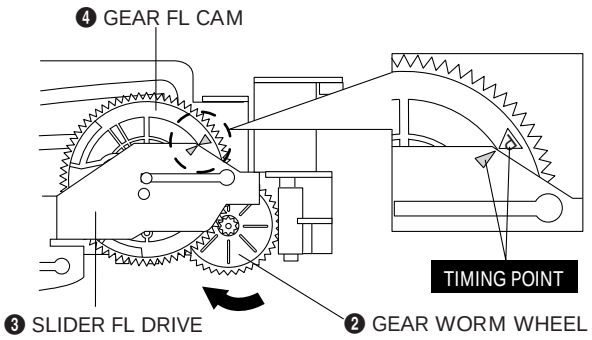


Fig. 2-12

4) As rotating Disk S Reel ❶ clockwise and the region of adjusting in the Main Base (in shape of slit) clockwise or counterclockwise after inserting screw driver in the slit on Main Base. Adjust the left end edge of Lever Tension Ass'y ❸ to 1.3 +1.5/-0.5mm from the location of mark in the Main Base.
5) As rotating Disk S Reel ❶, double-check the location of the left end edge of Lever Tension Ass'y and the quantity of crossing from mark on Main Base. (+1.0/-0.5mm)

Counterclockwise : Torque UP
Clockwise : Torque DOWN

Back Tension should be 56 ± 15g.cm at inspecting it with Back Tension Meter.

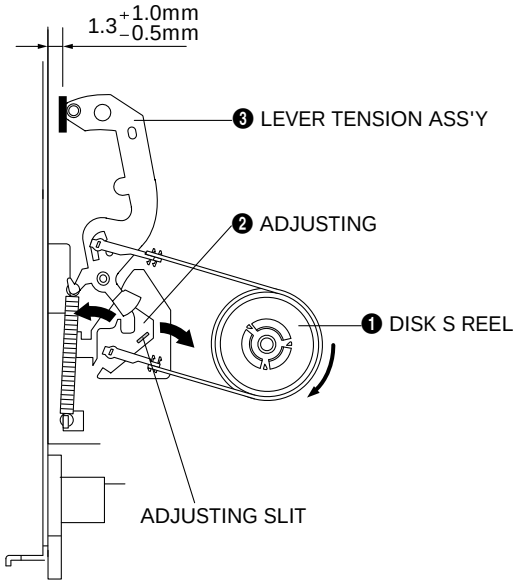


Fig. 2-13 Tension Pole and Back Tension Adjustment

Note :
1) Mark on Main Base is located in about 1.3mm from inside of bending line.
2) Be careful not to deform the region of adjusting on Main Base up and down at adjusting.

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